

SERVICE MANUAL

RA-1 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KP-41T15	RM-Y118	US	SCC-H53A-A
KP-41T15	RM-Y118	CND	SCC-H58A-A
KP-46S15	RM-Y118	US	SCC-H53B-A
KP-46S15	RM-Y118	CND	SCC-H58B-A

MODEL	COMMANDER	DEST.	CHASSIS NO.
KP-53S15	RM-Y118	US	SCC-H53C-A
KP-53S15	RM-Y118	CND	SCC-H58C-A

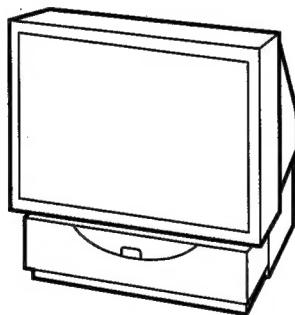
Note :

1. Adjustment Manual for this model is separately published.

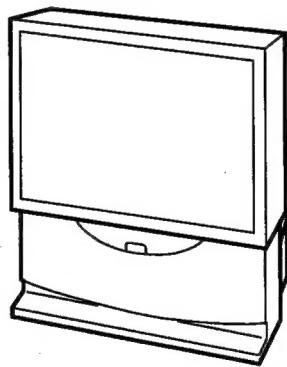
	Adjustment Manual
Part No.	9-965-043-01



RM-Y118



KP-41T15



KP-46S15/53S15



MICROFILM

COLOR REAR VIDEO PROJECTOR
SONY[®]

* Please file according to model size.....

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Les composants identifiés par une trame et une marque **Δ** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **Δ** are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<COIL>							
L1501	1-412-533-21	INDUCTOR	47UH	R1615	1-214-673-00	METAL	4.7 1% 1/4W
L1502	1-412-533-21	INDUCTOR	47UH	R1616	1-214-673-00	METAL	4.7 1% 1/4W
L1503	1-412-524-11	INDUCTOR	8.2UH	R1618	1-214-673-00	METAL	4.7 1% 1/4W
L1515	1-410-470-11	INDUCTOR	10UH	R1619	1-214-673-00	METAL	4.7 1% 1/4W
L1516	1-410-482-31	INDUCTOR	100UH	R1620	1-214-673-00	METAL	4.7 1% 1/4W
L1701	1-410-470-11	INDUCTOR	10UH	R1621	1-214-673-00	METAL	4.7 1% 1/4W
L1801	1-406-975-21	COIL, CHOKE	47UH	R1622	1-214-673-00	METAL	4.7 1% 1/4W
L1802	1-406-975-21	COIL, CHOKE	47UH	R1623	1-214-729-00	METAL	1K 1% 1/4W
<TRANSISTOR>							
Q1501	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R1624	1-214-729-00	METAL	1K 1% 1/4W
Q1502	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R1625	1-214-673-00	METAL	4.7 1% 1/4W
Q1551	8-729-216-22	TRANSISTOR	2SA1162-G	R1626	1-214-673-00	METAL	4.7 1% 1/4W
Q1552	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R1627	1-214-673-00	METAL	4.7 1% 1/4W
Q1701	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R1628	1-214-673-00	METAL	4.7 1% 1/4W
Q1801	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R1629	1-214-673-00	METAL	4.7 1% 1/4W
Q1802	8-729-216-22	TRANSISTOR	2SA1162-G	R1630	1-214-673-00	METAL	4.7 1% 1/4W
Q1803	8-729-900-36	TRANSISTOR	DTC124ES	R1631	1-214-729-00	METAL	1K 1% 1/4W
Q1804	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R1632	1-214-673-00	METAL	4.7 1% 1/4W
Q1805	8-729-900-36	TRANSISTOR	DTC124ES	R1633	1-214-673-00	METAL	4.7 1% 1/4W
<RESISTOR>							
R1501	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1634	1-214-729-00	METAL	1K 1% 1/4W
R1502	1-208-814-11	METAL CHIP	22K 0.50% 1/10W	R1635	1-214-673-00	METAL	4.7 1% 1/4W
R1504	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1636	1-214-673-00	METAL	4.7 1% 1/4W
R1505	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1637	1-214-673-00	METAL	4.7 1% 1/4W
R1506	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1638	1-214-673-00	METAL	4.7 1% 1/4W
R1507	1-208-814-11	METAL CHIP	22K 0.50% 1/10W	R1639	1-214-673-00	METAL	4.7 1% 1/4W
R1508	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1640	1-214-673-00	METAL	4.7 1% 1/4W
R1509A	1-249-385-91	CARBON	1.5 5% 1/4W F	R1641	1-214-673-00	METAL	4.7 1% 1/4W
R1510	1-214-671-91	METAL	3.9 1% 1/4W	R1642	1-214-673-00	METAL	4.7 1% 1/4W
R1511	1-214-671-71	METAL	3.9 1% 1/4W	R1643Δ	1-202-967-91	FUSIBLE	0.1 10% 1/6W
R1512	1-215-914-11	METAL OXIDE	330 5% 3W F	R1644Δ	1-202-967-91	FUSIBLE	0.1 10% 1/6W
R1513	1-214-671-71	METAL	3.9 1% 1/4W	R1645Δ	1-202-967-91	FUSIBLE	0.1 10% 1/6W
R1514	1-216-632-11	METAL CHIP	160 0.50% 1/10W	R1646Δ	1-202-967-91	FUSIBLE	0.1 10% 1/6W
R1515	1-216-639-11	METAL CHIP	330 0.50% 1/10W	R1647Δ	1-202-967-91	FUSIBLE	0.1 10% 1/6W
R1516	1-214-671-71	METAL	3.9 1% 1/4W	R1648Δ	1-202-967-91	FUSIBLE	0.1 10% 1/6W
R1517	1-216-647-11	METAL CHIP	680 0.50% 1/10W	R1717	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1518	1-216-665-11	METAL CHIP	3.9K 0.50% 1/10W	R1721	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1519Δ	1-249-385-91	CARBON	2.2 5% 1/4W F	R1737	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1520Δ	1-249-385-91	CARBON	2.2 5% 1/4W F	R1740	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1521	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1748	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1522	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1749	1-216-295-00	CONDUCTOR, CHIP	
R1523	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1751	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1551	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1752	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1552	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1760	1-216-295-00	CONDUCTOR, CHIP	
R1553	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1788	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R1554	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1801	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R1559	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1802	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R1562	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1803	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1603	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R1804	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R1604	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R1805	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R1605	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R1806	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1606	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R1807	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R1607	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R1808	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R1608	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R1809	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1610	1-214-729-00	METAL	1K 1% 1/4W	R1810	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R1612	1-214-729-00	METAL	1K 1% 1/4W	R1811	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1613	1-214-673-00	METAL	4.7 1% 1/4W	R1812	1-216-097-00	METAL GLAZE	100K 5% 1/10W
				R1813	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
				R1814	1-216-699-11	METAL CHIP	100K 0.50% 1/10W
				R1815	1-216-697-91	METAL CHIP	82K 0.50% 1/10W
				R1816	1-216-097-00	METAL GLAZE	100K 5% 1/10W
				R1817	1-216-033-00	METAL GLAZE	220 5% 1/10W
				R1818	1-216-025-00	METAL GLAZE	100 5% 1/10W
				R1819	1-216-025-00	METAL GLAZE	100 5% 1/10W
				R1820	1-216-025-00	METAL GLAZE	100 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1821	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1888	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R1823	1-208-811-11	METAL CHIP	16K 0.50% 1/10W	R1889	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R1824	1-216-685-11	METAL CHIP	27K 0.50% 1/10W	R1890	1-216-125-00	METAL GLAZE	1.5M 5% 1/10W
R1825	1-216-685-11	METAL CHIP	27K 0.50% 1/10W	R1891	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R1826	1-216-685-11	METAL CHIP	27K 0.50% 1/10W	R1892	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R1827	1-216-685-11	METAL CHIP	27K 0.50% 1/10W	R1893	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R1828	1-216-685-11	METAL CHIP	27K 0.50% 1/10W	R1894	1-216-389-91	CARBON	4.7 5% 1/10W P
R1829	1-216-685-11	METAL CHIP	27K 0.50% 1/10W	R1895	1-216-043-91	METAL GLAZE	560 5% 1/10W
R1830	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1896	1-216-389-91	CARBON	4.7 5% 1/10W P
R1831	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1897	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R1832	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R1898	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R1833	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1899	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R1834	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1900	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1835	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1901	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1836	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1902	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1837	1-208-806-11	METAL CHIP	10K 0.50% 1/10W	R1903	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1838	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R1904	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1839	1-216-031-00	METAL GLAZE	180 5% 1/10W	R1905	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R1840	1-208-806-11	METAL CHIP	10K 0.50% 1/10W	R1907	1-208-810-11	METAL CHIP	15K 0.50% 1/10W
R1841	1-208-806-11	METAL CHIP	10K 0.50% 1/10W	R1908	1-208-814-11	METAL CHIP	22K 0.50% 1/10W
R1842	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1909	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1843	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R1910	1-216-685-11	METAL CHIP	27K 0.50% 1/10W
R1844	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1911	1-216-685-11	METAL CHIP	27K 0.50% 1/10W
R1845	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1912	1-216-685-11	METAL CHIP	27K 0.50% 1/10W
R1846	1-216-125-00	METAL GLAZE	1.5M 5% 1/10W	R1913	1-216-685-11	METAL CHIP	27K 0.50% 1/10W
R1847	1-208-806-11	METAL CHIP	10K 0.50% 1/10W	R1914	1-216-685-11	METAL CHIP	27K 0.50% 1/10W
R1848	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1915	1-216-685-11	METAL CHIP	27K 0.50% 1/10W
R1849	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1916	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1850	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1917	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R1851	1-216-043-91	METAL GLAZE	560 5% 1/10W	R1918	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R1852	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1919	1-208-822-11	METAL CHIP	47K 0.50% 1/10W
R1853	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1920	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R1854	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1923	1-216-031-00	METAL GLAZE	12K 0.50% 1/10W
R1855	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1925	1-208-806-11	METAL CHIP	180 5% 1/10W
R1856	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1926	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R1857	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1927	1-216-125-00	METAL GLAZE	91K 0.50% 1/10W
R1858	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1928	1-208-806-11	METAL CHIP	390K 0.50% 1/10W
R1859	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1931	1-216-698-11	METAL CHIP	10K 0.50% 1/10W
R1860	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1935	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R1861	1-216-473-11	METAL OXIDE	56 5% 3W F	R1937	1-208-806-11	METAL CHIP	15K 0.50% 1/10W
R1862	1-216-473-11	METAL OXIDE	56 5% 3W F	R1938	1-208-810-11	METAL CHIP	18K 0.50% 1/10W
R1863	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1940	1-208-812-11	METAL CHIP	10K 0.50% 1/10W
R1864	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1941	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R1865	1-216-473-11	METAL OXIDE	56 5% 3W F	R1942	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R1866	1-216-473-11	METAL OXIDE	56 5% 3W F	R1943	1-216-699-11	METAL CHIP	100K 0.50% 1/10W
R1868	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1944	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R1869	1-216-685-11	METAL CHIP	27K 0.50% 1/10W	R1947	1-216-073-00	METAL GLAZE	56K 5% 1/10W
R1870	1-216-685-11	METAL CHIP	27K 0.50% 1/10W	R1948	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R1871	1-216-685-11	METAL CHIP	27K 0.50% 1/10W	R1949	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
R1872	1-216-685-11	METAL CHIP	27K 0.50% 1/10W	R1950	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
R1873	1-216-685-11	METAL CHIP	27K 0.50% 1/10W	R1951	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R1874	1-216-685-11	METAL CHIP	27K 0.50% 1/10W	R1952	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R1875	1-208-824-11	METAL CHIP	56K 0.50% 1/10W	R1954	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R1876	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1955	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R1877	1-208-810-11	METAL CHIP	15K 0.50% 1/10W	R1956	1-208-800-11	METAL CHIP	5.6K 0.50% 1/10W
R1878	1-208-806-11	METAL CHIP	10K 0.50% 1/10W	R1957	1-208-824-11	METAL CHIP	56K 0.50% 1/10W
R1879	1-216-685-11	METAL CHIP	27K 0.50% 1/10W	R1958	1-208-800-11	METAL CHIP	5.6K 0.50% 1/10W
R1880	1-218-768-11	METAL CHIP	470K 0.50% 1/10W	R1959	1-208-824-11	METAL CHIP	56K 0.50% 1/10W
R1881	1-216-295-00	CONDUCTOR CHIP	10K 0.50% 1/10W	R1960	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R1883	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R1961	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R1884	1-208-806-11	METAL CHIP	10K 0.50% 1/10W	R1962	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R1885	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1963	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1886	1-216-031-00	METAL GLAZE	180 5% 1/10W	R1964	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R1887	1-208-806-11	METAL CHIP	10K 0.50% 1/10W				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1965	1-216-073-00	METAL GLAZE	10K 5% 1/10W	S1301	1-571-731-11	SWITCH, TACTIL	
R1966	1-216-073-00	METAL GLAZE	10K 5% 1/10W	S1302	1-571-731-11	SWITCH, TACTIL	
R1967	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	S1303	1-571-731-11	SWITCH, TACTIL	
R1970	1-208-774-11	METAL CHIP	470 0.50% 1/10W	S1304	1-571-731-11	SWITCH, TACTIL	
R1971	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W	S1305	1-571-731-11	SWITCH, TACTIL	
R1981	1-216-473-11	METAL OXIDE	56 5% 3W F	S1306	1-571-731-11	SWITCH, TACTIL	
R1982	1-216-473-11	METAL OXIDE	56 5% 3W F	S1307	1-571-731-11	SWITCH, TACTIL	
R1983	1-216-077-00	METAL GLAZE	15K 5% 1/10W	*****	*****	*****	*****
R1984	1-216-077-00	METAL GLAZE	15K 5% 1/10W				
R1985	1-216-025-00	METAL GLAZE	100 5% 1/10W				
<THERMISTOR>							
TH1501	1-807-925-11	THERMISTOR					
TH1801	1-808-269-11	THERMISTOR					
<CRYSTAL>							
X1701	1-579-917-11	VIBRATOR, CRYSTAL		C1101	1-128-551-11	ELECT	22MF 20% 50V

*A-1372-099-A HA BOARD, COMPLETE				C1102	1-124-903-11	ELECT	1MF 20% 50V
*****				C1103	1-124-903-11	ELECT	1MF 20% 50V
*****				C1104	1-163-031-11	CERAMIC CHIP	0.01MF 50V
*****				C1105	1-128-551-11	ELECT	22MF 20% 50V
<CAPACITOR>							
C1301	1-126-964-11	ELECT	10MF 20% 50V	C1106	1-128-551-11	ELECT	22MF 20% 50V
C1304	1-126-964-11	ELECT	10MF 20% 50V	C1107	1-124-903-11	ELECT	1MF 20% 50V
<CONNECTOR>							
CN1346	1-564-524-11	PLUG, CONNECTOR 9P		C1108	1-124-903-11	ELECT	1MF 20% 50V
CN1347*1-564-521-11	PLUG, CONNECTOR 6P			C1109	1-128-551-11	ELECT	22MF 20% 50V
<DIODE>							
D1304	8-719-053-43	DIODE SLR-325VCT31		C1110	1-124-903-11	ELECT	1MF 20% 50V
D1305	8-719-053-43	DIODE SLR-325VCT31		C1111	1-124-903-11	ELECT	1MF 20% 50V
<IC>							
IC1301	8-741-780-51	IC SBX1780-51		C1121	1-126-935-11	ELECT	470MF 20% 16V
<JACK>							
J1301	1-750-517-11	JACK BLOCK, PIN 3P		C1122	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
<RESISTOR>							
R1302	1-249-416-11	CARBON	820 5% 1/4W	C1123	1-124-903-11	ELECT	1MF 20% 50V
R1303	1-249-417-11	CARBON	1K 5% 1/4W	C1124	1-128-551-11	ELECT	22MF 20% 50V
R1304	1-249-425-11	CARBON	4.7K 5% 1/4W	C1125	1-124-903-11	ELECT	1MF 20% 50V
R1305	1-249-411-11	CARBON	330 5% 1/4W	C1126	1-104-665-11	ELECT	100MF 20% 25V
R1306	1-249-411-11	CARBON	330 5% 1/4W	C1127	1-104-663-11	ELECT	33MF 20% 25V
<SWITCH>							
R1307	1-249-420-11	CARBON	1.8K 5% 1/4W	C1128	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
R1308	1-247-895-00	CARBON	470K 5% 1/4W	C1129	1-124-902-00	ELECT	0.47MF 20% 50V
R1309	1-247-895-00	CARBON	470K 5% 1/4W	C1130	1-128-551-11	ELECT	22MF 20% 50V
R1310	1-249-429-11	CARBON	10K 5% 1/4W	C1131	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
R1311	1-247-815-91	CARBON	220 5% 1/4W	C1132	1-124-902-00	ELECT	0.47MF 20% 50V
<CONNECTOR>							
R1312	1-247-804-11	CARBON	75 5% 1/4W	C1133	1-128-551-11	ELECT	22MF 20% 50V
R1314	1-247-807-31	CARBON	100 5% 1/4W	C1134	1-104-665-11	ELECT	100MF 20% 25V
<FILTER BLOCK>							
CM1101 1-466-912-21 FILTER BLOCK, COMB							
<CONNECTOR>							
CN1147*1-564-509-11	PLUG, CONNECTOR 6P						
CN1150 1-573-300-21	CONNECTOR, BOARD TO BOARD 18P						
CN1155*1-565-928-11	CONNECTOR (TUB) 30P						
CN1156*1-566-641-11	CONNECTOR, HINGE (TAB) 18P						



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<DIODE>							
D1101	8-719-110-17	DIODE RD10ESB2		R1101	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
D1102	8-719-110-17	DIODE RD10ESB2		R1102	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
D1103	8-719-110-17	DIODE RD10ESB2		R1103	1-247-804-11	CARBON	75 5% 1/4W
D1104	8-719-110-17	DIODE RD10ESB2		R1104	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
D1105	8-719-110-17	DIODE RD10ESB2		R1105	1-247-804-11	CARBON	75 5% 1/4W
D1106	8-719-110-17	DIODE RD10ESB2		R1106	1-247-804-11	CARBON	75 5% 1/4W
D1107	8-719-110-17	DIODE RD10ESB2		R1107	1-216-113-00	METAL GLAZE	470K 5% 1/10W
D1108	8-719-110-17	DIODE RD10ESB2		R1108	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
D1109	8-719-110-17	DIODE RD10ESB2		R1109	1-216-113-00	METAL GLAZE	470K 5% 1/10W
D1111	8-719-110-17	DIODE RD10ESB2		R1110	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
D1112	8-719-110-17	DIODE RD10ESB2		R1111	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
D1113	8-719-110-17	DIODE RD10ESB2		R1112	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
D1114	8-719-110-17	DIODE RD10ESB2		R1113	1-247-804-11	CARBON	75 5% 1/4W
D1115	8-719-110-17	DIODE RD10ESB2		R1114	1-216-113-00	METAL GLAZE	470K 5% 1/10W
D1116	8-719-110-17	DIODE RD10ESB2		R1115	1-216-113-00	METAL GLAZE	470K 5% 1/10W
D1117	8-719-110-17	DIODE RD10ESB2		R1116	1-216-095-00	METAL GLAZE	82K 5% 1/10W
D1118	8-719-110-17	DIODE RD10ESB2		R1117	1-216-095-00	METAL GLAZE	82K 5% 1/10W
D1120	8-719-110-17	DIODE RD10ESB2		R1118	1-216-095-00	METAL GLAZE	82K 5% 1/10W
D1121	8-719-110-36	DIODE RD13ESB2		R1119	1-216-025-00	METAL GLAZE	100 5% 1/10W
D1122	8-719-110-36	DIODE RD13ESB2		R1120	1-216-025-00	METAL GLAZE	100 5% 1/10W
D1123	8-719-110-36	DIODE RD13ESB2		R1127	1-216-041-00	METAL GLAZE	470 5% 1/10W
D1124	8-719-110-36	DIODE RD13ESB2		R1129	1-216-041-00	METAL GLAZE	470 5% 1/10W
D1125	8-719-109-66	DIODE RD3.3ESB2		R1130	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
D1126	8-719-110-17	DIODE RD10ESB2		R1132	1-216-025-00	METAL GLAZE	100 5% 1/10W
D1127	8-719-110-17	DIODE RD10ESB2		R1133	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
D1135	8-719-911-19	DIODE 1SS119-25		R1134	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
<IC>							
IC1101	8-752-068-46	IC CXA1855S		R1140	1-216-025-00	METAL GLAZE	100 5% 1/10W
IC1102	8-759-701-59	IC NJM7809FA		R1141	1-216-041-00	METAL GLAZE	470 5% 1/10W
<JACK>							
J1101	1-750-515-11	TERMINAL BLOCK, S 3P		R1146	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
J1102	1-750-517-11	JACK BLOCK, PIN 3P		R1149	1-216-041-00	METAL GLAZE	470 5% 1/10W
J1104	1-750-517-11	JACK BLOCK, PIN 3P		R1150	1-216-025-00	METAL GLAZE	100 5% 1/10W
J1105	1-750-516-11	JACK BLOCK, PIN 2P		R1151	1-216-025-00	METAL GLAZE	100 5% 1/10W
J1106	1-563-760-11	JACK, MINIATUBR (DIA. 3.5)		R1152	1-216-043-91	METAL GLAZE	560 5% 1/10W
J1107	1-563-760-11	JACK, MINIATUBR (DIA. 3.5)		R1153	1-216-049-00	METAL GLAZE	1K 5% 1/10W
<COIL>							
L1101	1-410-476-11	INDUCTOR	33UH	R1154	1-216-041-00	METAL GLAZE	470 5% 1/10W
L1104	1-410-473-11	INDUCTOR	18UH	R1155	1-216-049-00	METAL GLAZE	1K 5% 1/10W
L1105	1-410-494-11	INDUCTOR	1MMH	R1156	1-216-043-91	METAL GLAZE	560 5% 1/10W
<TRANSISTOR>							
Q1102	8-729-216-22	TRANSISTOR 2SA1162-G		R1157	1-216-045-00	METAL GLAZE	680 5% 1/10W
Q1103	8-729-216-22	TRANSISTOR 2SA1162-G		R1160	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q1104	8-729-422-27	TRANSISTOR 2SD601A-Q		R1161	1-216-041-00	METAL GLAZE	470 5% 1/10W
Q1105	8-729-216-22	TRANSISTOR 2SA1162-G		R1162	1-216-041-00	METAL GLAZE	470 5% 1/10W
Q1106	8-729-216-22	TRANSISTOR 2SA1162-G		R1165	1-249-403-11	CARBON	68 5% 1/4W
Q1108	8-729-422-27	TRANSISTOR 2SD601A-Q		R1166	1-216-113-00	METAL GLAZE	470K 5% 1/10W
Q1109	8-729-216-22	TRANSISTOR 2SA1162-G		R1167	1-216-113-00	METAL GLAZE	470K 5% 1/10W
Q1110	8-729-216-22	TRANSISTOR 2SA1162-G		R1168	1-216-113-00	METAL GLAZE	470K 5% 1/10W
Q1111	8-729-216-22	TRANSISTOR 2SA1162-G		R1169	1-216-025-00	METAL GLAZE	100 5% 1/10W
Q1112	8-729-422-27	TRANSISTOR 2SD601A-Q		R1170	1-216-041-00	METAL GLAZE	470 5% 1/10W
Q1113	8-729-422-27	TRANSISTOR 2SD601A-Q		R1171	1-216-041-00	METAL GLAZE	470 5% 1/10W
Q1114	8-729-422-27	TRANSISTOR 2SD601A-Q		R1172	1-216-025-00	METAL GLAZE	100 5% 1/10W
Q1115	8-729-422-27	TRANSISTOR 2SD601A-Q		R1173	1-216-025-00	METAL GLAZE	100 5% 1/10W
				R1174	1-216-041-00	METAL GLAZE	470 5% 1/10W
				R1175	1-216-025-00	METAL GLAZE	100 5% 1/10W
				R1176	1-216-025-00	METAL GLAZE	100 5% 1/10W
				R1178	1-216-041-00	METAL GLAZE	470 5% 1/10W
				R1179	1-216-025-00	METAL GLAZE	100 5% 1/10W
				R1180	1-216-025-00	METAL GLAZE	100 5% 1/10W
				R1181	1-216-097-00	METAL GLAZE	100K 5% 1/10W
				R1182	1-216-113-00	METAL GLAZE	470K 5% 1/10W

U	ZR (KP-41T15)	ZR (KP-46S15/53S15)	ZG								
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK				
R1183	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R1406	1-216-479-11	METAL OXIDE	560 5%	3W F		
R1184	1-216-113-00	METAL GLAZE	470K 5%	1/10W	R1407	1-249-400-11	CARBON	39 5%	1/4W F		
R1185	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R1408	1-249-384-11	CARBON	1.8 5%	1/4W F		
R1186	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W	R1409	1-249-384-11	CARBON	1.8 5%	1/4W F		
R1187	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W	R1410	1-247-734-11	CARBON	39 5%	1/2W F		
R1188	1-216-097-00	METAL GLAZE	100K 5%	1/10W	R1411	1-249-417-11	CARBON	1K 5%	1/4W F		
R1190	1-216-295-00	CONDUCTOR, CHIP			R1412	1-249-414-11	CARBON	560 5%	1/4W F		
R1191	1-216-295-00	CONDUCTOR, CHIP			R1413	1-249-432-11	CARBON	18K 5%	1/4W F		
R1192	1-216-295-00	CONDUCTOR, CHIP			R1414	1-249-432-11	CARBON	18K 5%	1/4W F		
R1193	1-216-025-00	METAL GLAZE	100 5%	1/10W	R1415	1-249-414-11	CARBON	560 5%	1/4W F		
R1194	1-216-025-00	METAL GLAZE	100 5%	1/10W	R1416	1-216-451-11	METAL OXIDE	120 5%	2W F		
R1196	1-216-041-00	METAL GLAZE	470 5%	1/10W	R1417	1-216-475-11	METAL OXIDE	120 5%	3W F		
R1197	1-216-041-00	METAL GLAZE	470 5%	1/10W	R1418	1-249-377-11	CARBON	0.47 5%	1/4W F		

*A-1390-487-A ZR BOARD, COMPLETE (KP-41T15)											

4-382-854-11 SCREW (M3X10), P, SW (+)											
<CAPACITOR>											
C1401	1-162-115-00	CERAMIC	330PF	10%	2KV	4-382-854-11 SCREW (M3X10), P, SW (+)					
C1402	1-162-115-00	CERAMIC	330PF	10%	2KV	<CAPACITOR>					
C1403	1-102-978-00	CERAMIC	220PF	5%	50V	C1401	1-162-115-00	CERAMIC	330PF	10%	2KV
C1404	1-107-638-11	ELECT	33MF	20%	160V	C1402	1-162-115-00	CERAMIC	330PF	10%	2KV
C1405	1-104-665-11	ELECT	100MF	20%	25V	<CONNECTOR>					
C1406	1-107-370-11	FILM	0.1MF	10%	200V	CN1411*1-580-689-11	PIN, CONNECTOR (PC BOARD)	4P			
C1407	1-104-665-11	ELECT	100MF	20%	25V	CN1412*1-564-507-11	PLUG, CONNECTOR 4P				
C1408	1-107-362-11	FILM	0.0047MF	10%	200V	CN1413*1-564-506-11	PLUG, CONNECTOR 3P				
C1409	1-107-667-11	ELECT	2.2MF	20%	160V	CN1415*1-564-506-11	PLUG, CONNECTOR 3P				
C1410	1-107-362-11	FILM	0.0047MF	10%	200V	<RESISTOR>					
C1411	1-137-364-11	FILM	0.001MF	5%	50V	R1401	1-249-414-11	CARBON	560 5%	1/4W	
C1412	1-137-364-11	FILM	0.001MF	5%	50V	R1402	1-249-414-11	CARBON	560 5%	1/4W	
C1413	1-161-830-00	CERAMIC	0.0047MF	99%	500V	R1403	1-202-822-00	SOLID	2.2K 20%	1/2W	
C1414	1-126-940-11	ELECT	330MF	20%	16V	R1404	1-202-822-00	SOLID	2.2K 20%	1/2W	
C1415	1-164-046-11	CERAMIC	10PF	0.5PF	50V	R1417	1-216-475-11	METAL OXIDE	120 5%	3W F	
C1416	1-102-973-00	CERAMIC	100PF	5%	50V	R1420	1-216-475-11	METAL OXIDE	120 5%	3W F	
<CONNECTOR>											
CN1411*1-580-689-11	PIN, CONNECTOR (PC BOARD)	4P	*****								
CN1412*1-564-507-11	PLUG, CONNECTOR 4P		*A-1390-489-A ZG BOARD, COMPLETE (KP-41T15)								
CN1413*1-564-506-11	PLUG, CONNECTOR 3P		*****								
CN1414*1-564-509-11	PLUG, CONNECTOR 6P		*A-1390-512-A ZG BOARD, COMPLETE (KP-46S15/53S15)								
CN1415*1-564-510-11	PLUG, CONNECTOR 7P		*****								
<DIODE>											
D1401	8-719-110-88	DIODE RD39ESB2									
D1402	8-719-110-88	DIODE RD39ESB2									
<TRANSISTOR>											
Q1401	8-729-017-06	TRANSISTOR 2SC4793									
Q1402	8-729-017-05	TRANSISTOR 2SA1837									
Q1403	8-729-140-96	TRANSISTOR 2SD774-34									
<RESISTOR>											
R1401	1-249-414-11	CARBON	560 5%	1/4W	<CAPACITOR>						
R1402	1-249-414-11	CARBON	560 5%	1/4W	C1431	1-162-115-00	CERAMIC	330PF	10%	2KV	
R1403	1-202-822-00	SOLID	2.2K 20%	1/2W	C1432	1-162-115-00	CERAMIC	330PF	10%	2KV	
R1404	1-202-822-00	SOLID	2.2K 20%	1/2W	C1433	1-102-973-00	CERAMIC	100PF	5%	50V	
R1405	1-249-417-11	CARBON	1K 5%	1/4W	(KP-41T15)						
<CONNECTOR>											
CN1441*1-580-689-11	PIN, CONNECTOR (PC BOARD)	4P	<CONNECTOR>								
CN1442*1-564-507-11	PLUG, CONNECTOR 4P		CN1442*1-564-507-11 PIN, CONNECTOR (PC BOARD) 4P								
CN1443*1-564-506-11	PLUG, CONNECTOR 3P		CN1443*1-564-506-11 PLUG, CONNECTOR 3P								
CN1445*1-564-506-11	PLUG, CONNECTOR 3P		CN1445*1-564-506-11 PLUG, CONNECTOR 3P								
(KP-46S15/53S15)											

ZG

ZB

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
CN1445*1-564-510-11	PLUG, CONNECTOR 7P	(KP-41T15)					
<RESISTOR>							
R1431	1-249-414-11	CARBON	560	5%	1/4W	3-798-907-21	MANUAL, INSTRUCTION
R1432	1-249-414-11	CARBON	560	5%	1/4W	*4-041-426-01	BAG, PROTECTION (KP-53S15)
R1433	1-202-822-00	SOLID	2.2K	20%	1/2W	*4-042-463-01	SHEET, PROTECTION (KP-53S15)
R1434	1-202-822-00	SOLID	2.2K	20%	1/2W	*4-047-776-01	TRAY (KP-53S15)
R1435	1-216-475-11	METAL OXIDE	120	5%	3W F	*4-047-777-01	INDIVIDUAL CARTON (KP-53S15)
R1436	1-216-475-11	METAL OXIDE	120	5%	3W F	*4-047-778-01	CUSHION (UPPER) (ASSY) (KP-53S15)
R1437	1-249-417-11	CARBON	1K	5%	1/4W	*4-047-779-01	CUSHION (LOWER) (ASSY) (KP-53S15)
						*4-048-579-01	CUSHION (UPPER) (ASSY) (KP-41T15)
						*4-048-580-01	CUSHION (LOWER) (ASSY) (KP-41T15)
						*4-048-581-01	TRAY (KP-41T15)

*A-1390-491-A ZB BOARD, COMPLETE							

<CAPACITOR>							
C1461	1-162-115-00	CBRAMIC	330PF	10%	2KV	1-467-059-21	REMOTE COMMANDER (RM-Y118)
C1462	1-162-115-00	CBRAMIC	330PF	10%	2KV	9-903-826-01	COVER, BATTERY (FOR RM-Y118)

<CONNECTOR>							
CN1471*1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P						
CN1472*1-564-507-11	PLUG, CONNECTOR 4P						
CN1473*1-564-506-11	PLUG, CONNECTOR 3P						

<RESISTOR>							
R1461	1-249-414-11	CARBON	560	5%	1/4W		
R1462	1-249-414-11	CARBON	560	5%	1/4W		
R1463	1-202-822-00	SOLID	2.2K	20%	1/2W		
R1464	1-202-822-00	SOLID	2.2K	20%	1/2W		
R1465	1-216-475-11	METAL OXIDE	120	5%	3W F		
R1466	1-216-475-11	METAL OXIDE	120	5%	3W F		

MISCELLANEOUS							

Δ 1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE)						
Δ 1-452-790-11	NECK ASSY (KP-41T15)						
Δ 1-452-790-21	NECK ASSY (KP-41T15)						
1-504-785-11	SPEAKER (10CM)						
1-556-945-21	CABLE, P-P						
Δ 1-559-865-41	LEAD ASSY, HIGH-VOLTAGE						
1-561-306-00	JACK, PIN (F)						
Δ 1-769-837-11	CORD, POWER (WITH NOISE FILTER) 7.0A/125V						
Δ 1-900-211-34	LEAD ASSY, BY						
Δ 8-451-463-11	DY Y829PA2N (R), (G)						
Δ 8-451-463-21	DY Y829PA2N2 (B)						
Δ 8-598-955-00	BLOCK ASSY, HIGH-VOLTAGE						
V901 Δ 8-736-078-05	PICTURE TUBE 07MA65(G)						
V902 Δ 8-736-079-05	PICTURE TUBE 07MA65(B) (KP-41T15/46S15)						
Δ 8-736-081-05	PICTURE TUBE 07MA66(B) (KP-53S15)						
V903 Δ 8-736-080-05	PICTURE TUBE 07MA65(R) (KP-41T15/46S15)						
Δ 8-736-082-05	PICTURE TUBE 07MA66(R) (KP-53S15)						

KP-41T15/46S15/53S15
RM-Y118 RM-Y118 RM-Y118

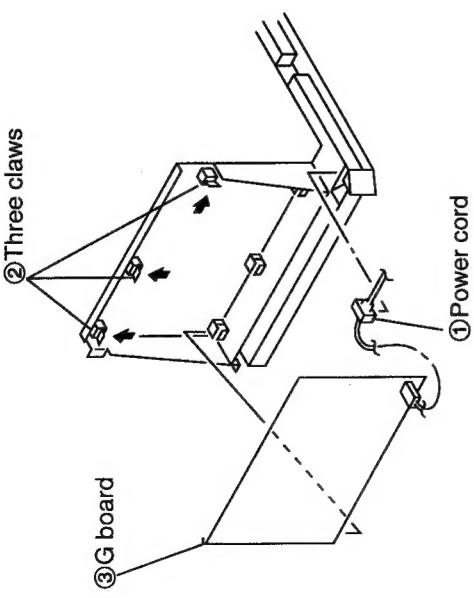
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Sony Corporation
Consumer A&V Products Company
TV & Display Products Div.

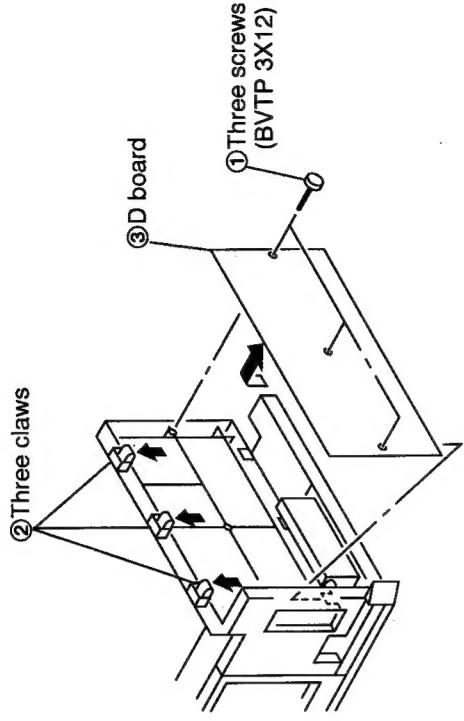
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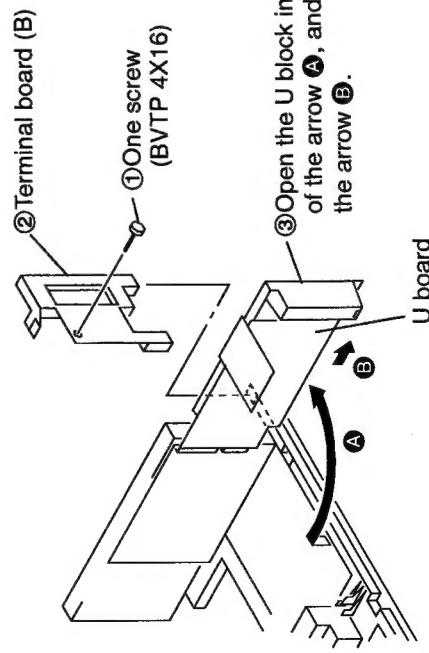
2-4. G BOARD REMOVAL



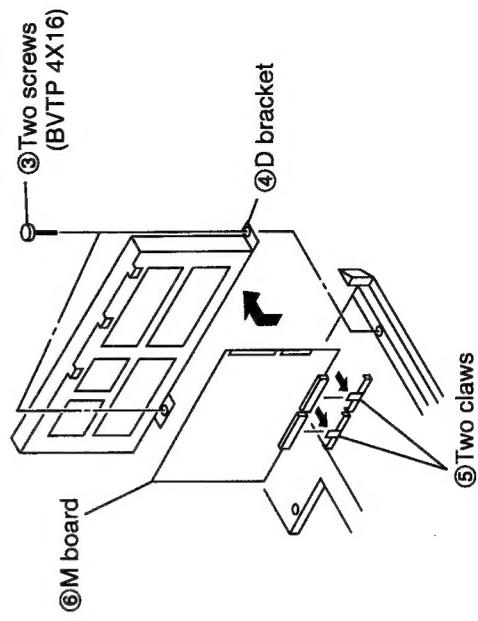
2-5. D BOARD REMOVAL



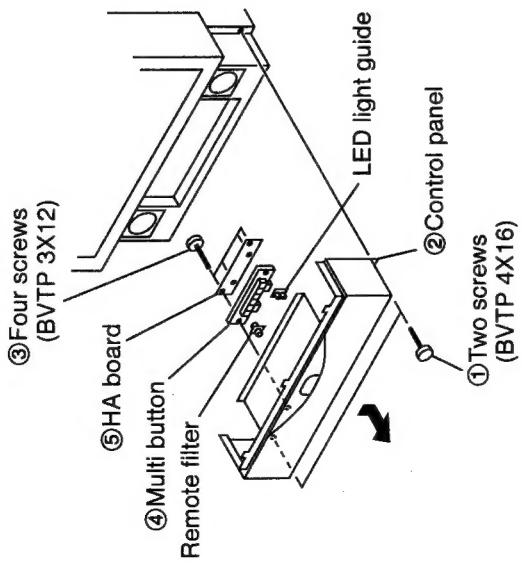
2-6. U BOARD REMOVAL



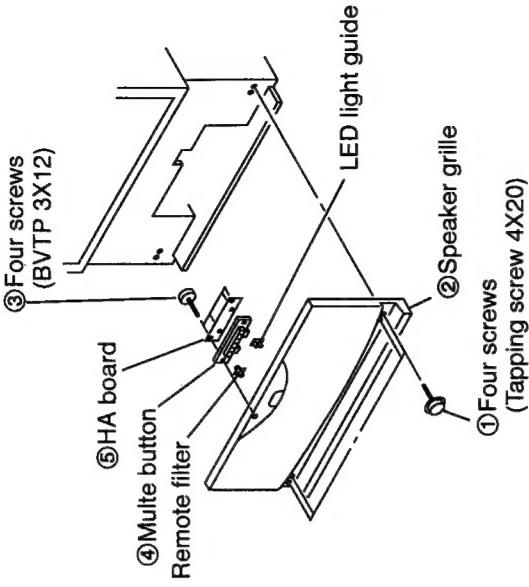
2-7. M BOARD REMOVAL



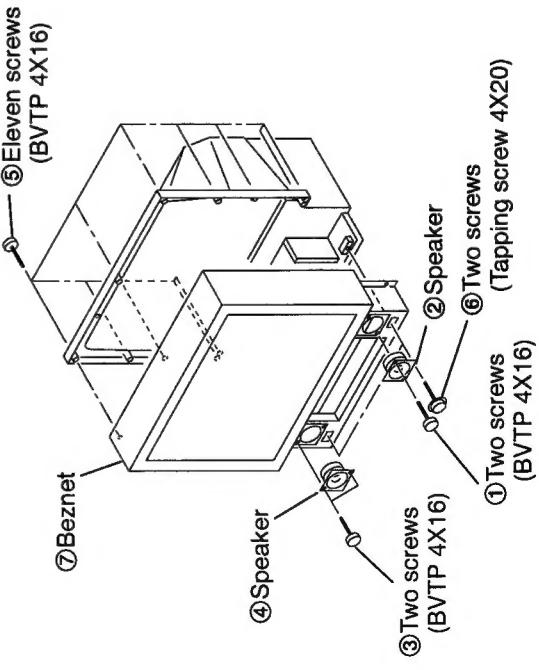
2-8-1. HA BOARD REMOVAL (KP-41T15)



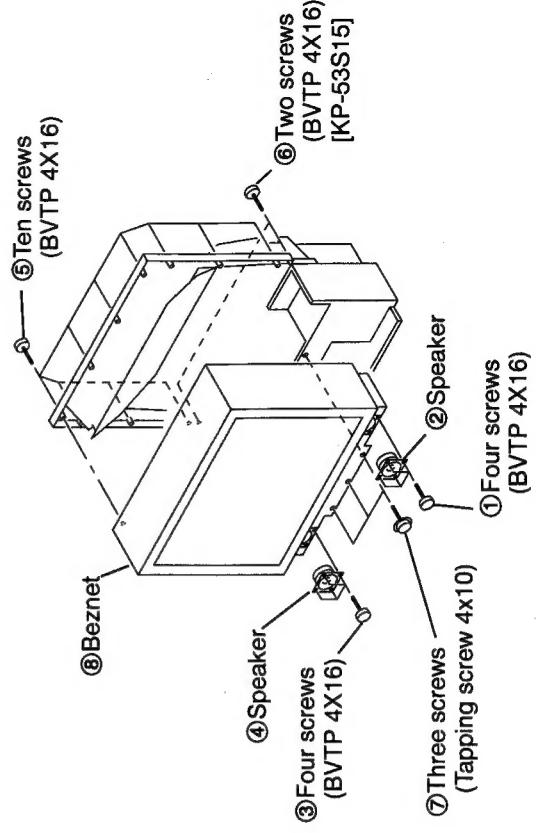
2-8-2. HA BOARD REMOVAL (KP-46S15/53S15)



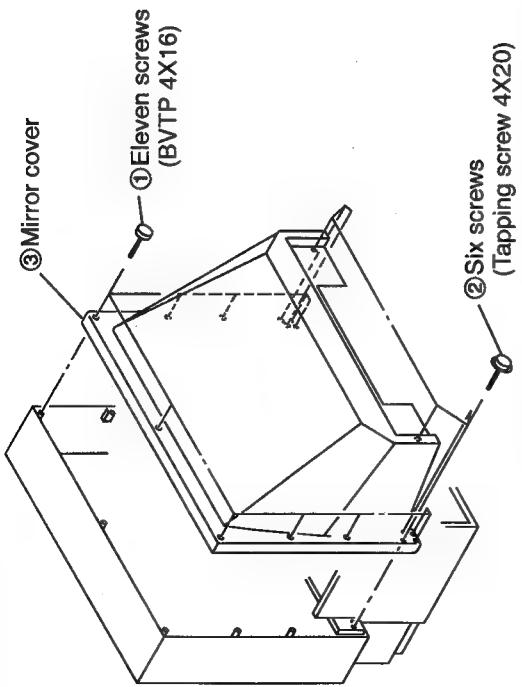
2-9-1. BEZNET REMOVAL (KV-41T15)



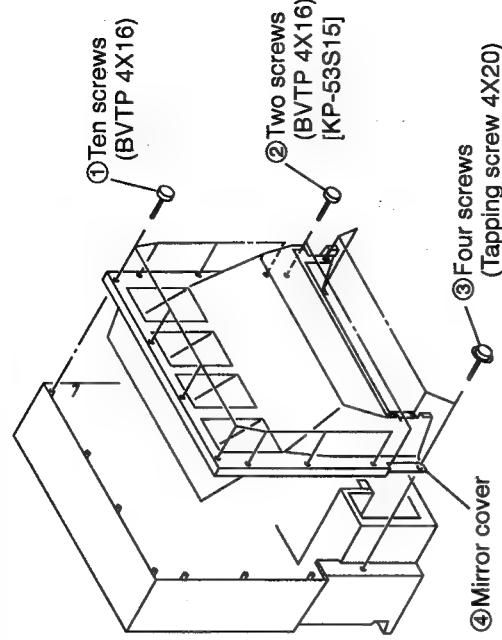
2-9-2. BEZNET REMOVAL (KV-46S15/53S15)



**2-10-1. MIRROR COVER REMOVAL
(KP-41T15)**

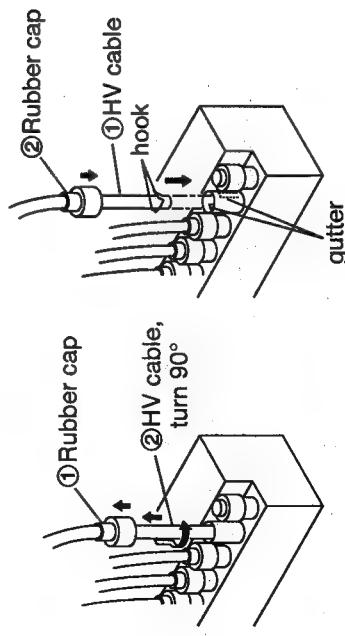


**2-10-2. MIRROR COVER REMOVAL
(KP-46S15/53S15)**

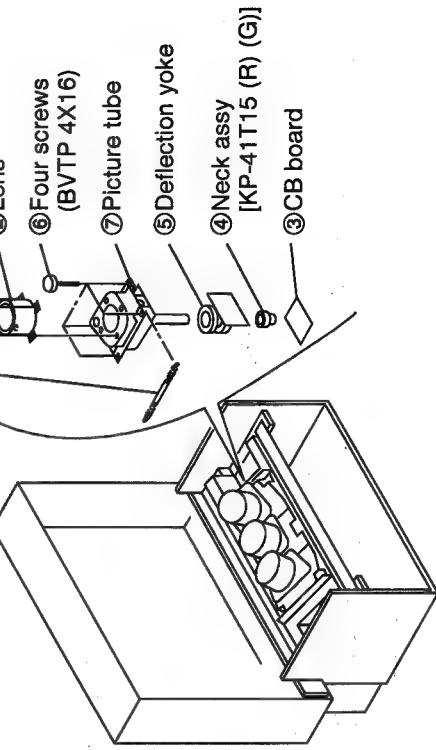


2-11. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

(1) Remover



(2) Installation



2-12. PICTURE TUBE REMOVAL

SECTION 3 SAFETY RELATED ADJUSTMENTS

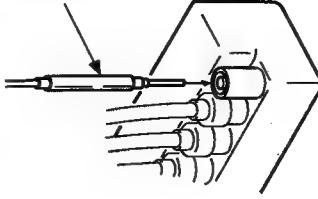
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
HV HOLD DOWN CIRCUIT OPERATIONS CHECK AND ADJUSTMENT (*█ RESISTOR)		*█ marked parts C818, D804, D806, D809, D909, D912, Q915, R809, R855, R856, R857, R858, R954, R955, R983, R984, R988, R991, R995, R996, R998, T803, FBT E board HV Block *HV Block	* █ R809, R988	<p>E BOARD – COMPONENT SIDE –</p> <p>CN884</p> <p>CN885</p> <p>R809</p>

When replacing the parts marked *█ on the right, check the HV hold down and adjust.

1. Remove the cap for the unconnected pin in the *high-voltage block and connect a *Static Voltmeter.
2. Input 130 VAC power.

* Static Voltmeter

Remove the cap off from the unused terminal and connect a static voltmeter there.



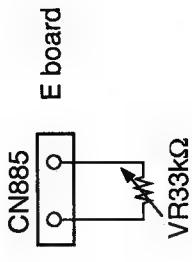
*

3. Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.

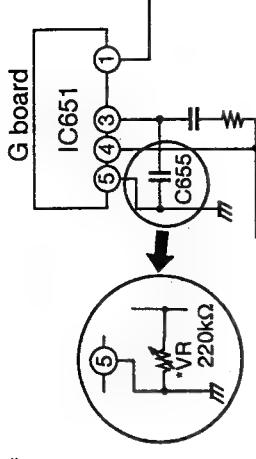
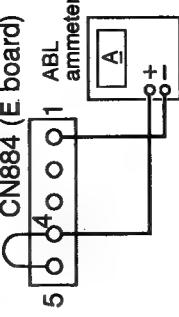
* Dot pattern

* PICTURE
..... minimum
BRIGHTNESS
..... minimum

4. Connect a *33 kΩ variable resistor across the E board *CN885 connector (with the variable resistor set to its maximum).



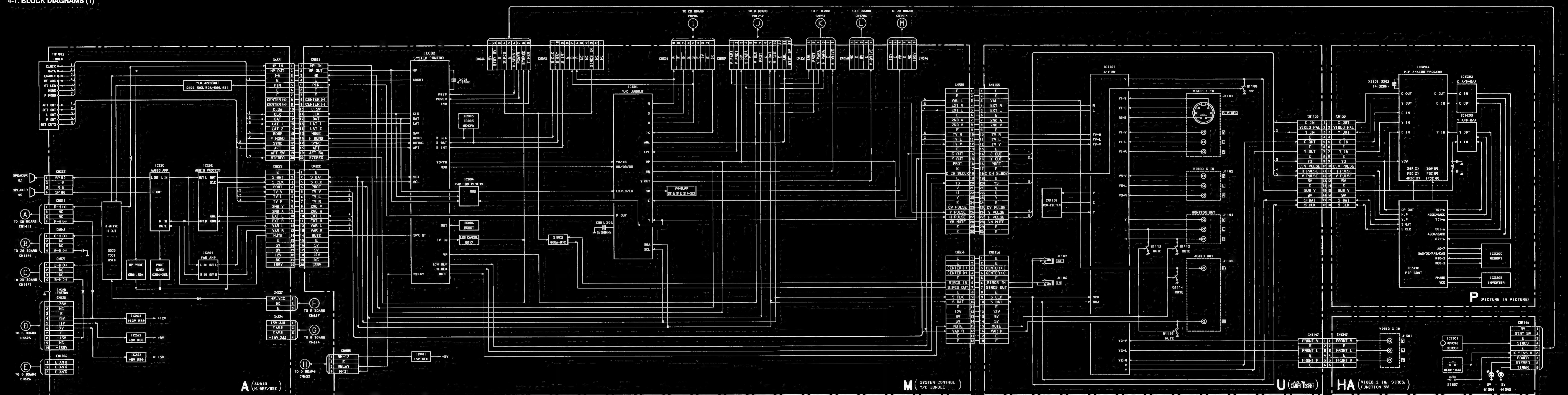
*

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
OVERTVOLGE PROTECTION (OVP) OPERATIONS CHECK				<p>* Input 120.0 ± 1.0 VAC, 60 Hz power.</p> <p>2. Connect a $220\text{k}\Omega$ variable resistance rheostat to the G board C655 (between Pins ③ and ⑤ of IC651).</p>  <p>* Dot pattern</p> <p>3. Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</p> <p>4. Gradually lower the value of the connected variable resistance and check that when the +B line *voltage is 143.5 ± 5.5 VDC, the overvoltage circuit operates and the rasters disappear.</p> <p>5. Remove the variable resistor and check the +B line voltage.</p>
BEAM CURRENT (ΣI_k) PROTECTION CIRCUIT CHECK				<p>* Ammeter</p> <p>1. Connect the *ABL ammeter between *Pins ① and ④ of the CN884 on the E board. Have Pins ② and ③ open.</p>  <p>* Monoscope pattern</p> <p>2. Input 120.0 ± 1.0 VAC, 60 Hz power.</p> <p>3. Receive a *monoscope signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</p>

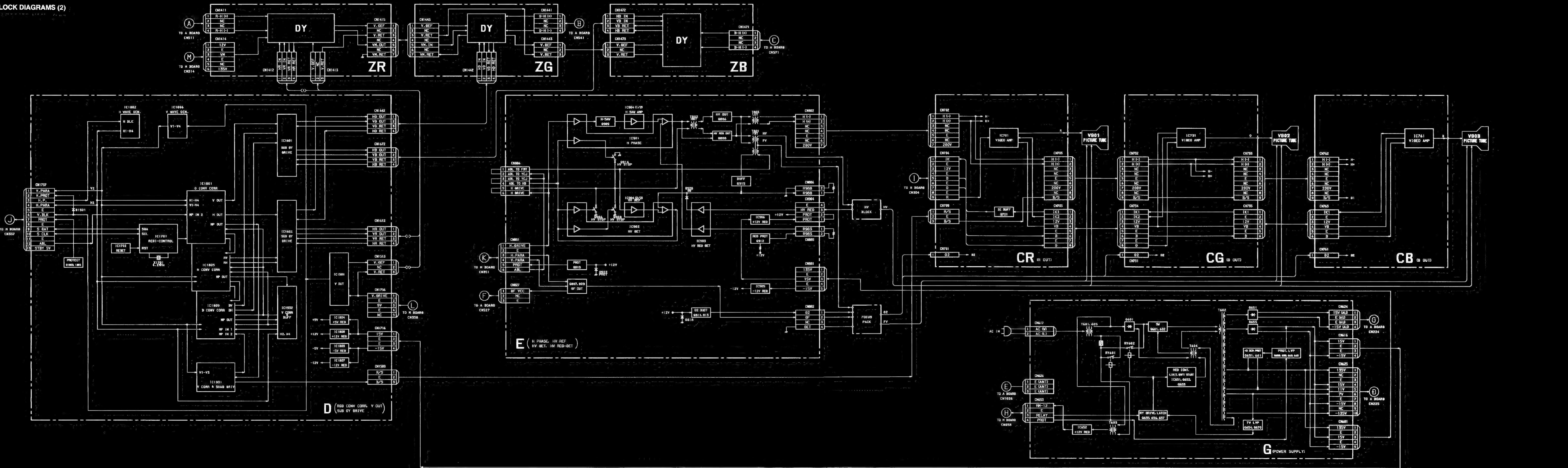
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
+B, +B MAX CHECK When replacing the G board IC651, check the following.	<p>4. Gradually raise the *PICTURE and BRIGHTNESS settings and check that below an *ABL current of 3.35 mA (including dark current), the beam current protection circuit operates and the rasters disappear.</p>	<p>*PICTURE BRIGHTNESS</p> <p>E BOARD - COMPONENT SIDE -</p> 	<p>*PICTURE BRIGHTNESS</p> <p>* Less than 3.35 mA</p>	<p>*120.0 ± 1.0 V, 60 Hz</p> <p>*PICTURE minimum BRIGHTNESS minimum</p> <p>*CN681 pin ①</p> <p>*CN681 pin ①</p> <p>*135.0 ± 2.0 VDC *130.0 ^{+2.0}/₋₀ VAC * Less than 137.0 VDC</p>
	<ol style="list-style-type: none"> 1. Input *120.0 ± 1.0 V, 60 Hz power. 2. Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums. 3. Check that the *+B line voltage is now *135.0 ± 2.0 VDC. 4. Set the power supply to *130.0 ^{+2.0}/₋₀ VAC. 5. Check that the *+B line voltage is *137.0 VDC max. 6. If either 3 or 5 is not satisfied, replace IC651 again. 			

SECTION 4
DIAGRAMS

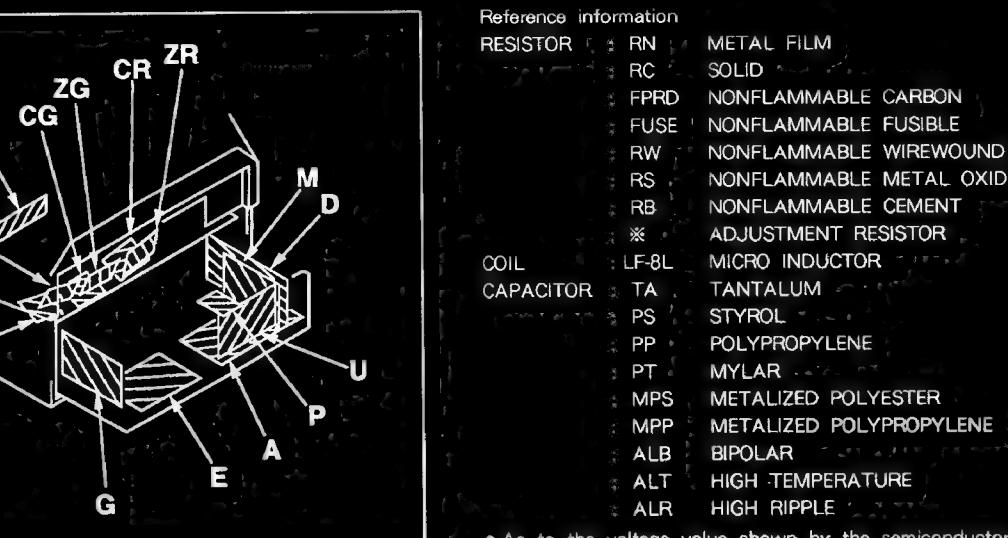
4-1. BLOCK DIAGRAMS (1)



LOCK DIAGRAMS (2)



4-2. CIRCUIT BOARDS LOCATION



4-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50V or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms.
- $k\Omega = 1000 \Omega$, $M\Omega = 1000k\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.
- Pitch : 5mm
- Rating electrical power : $1/4\text{W}$
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-chassis.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R808, R809, R983 and R988 adjustment on Page 20 - 24.)
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (Adjustment (
HV Block Q815, D804, D806, D809, D909, D912, C818, R804, R855, R856, R857, R859, R854, R955, R983, R984, R988, R991, R995, R998, R998, T801 ('FBT'), T803E BOARD	HV HOLD-DOWN (R809, R988)
HV Block Q909, D902, D920, D925, C918, C930, C934, C980, R808, R851, R829, R936, R939, R942, R944, R945, R946, R947, R950, R965, R987, R971, R975, R976, R982, R983, R985, R998E BOARD	HV Reagulator (R808, R983)

A [AUDIO,
H. DEF./BBE]

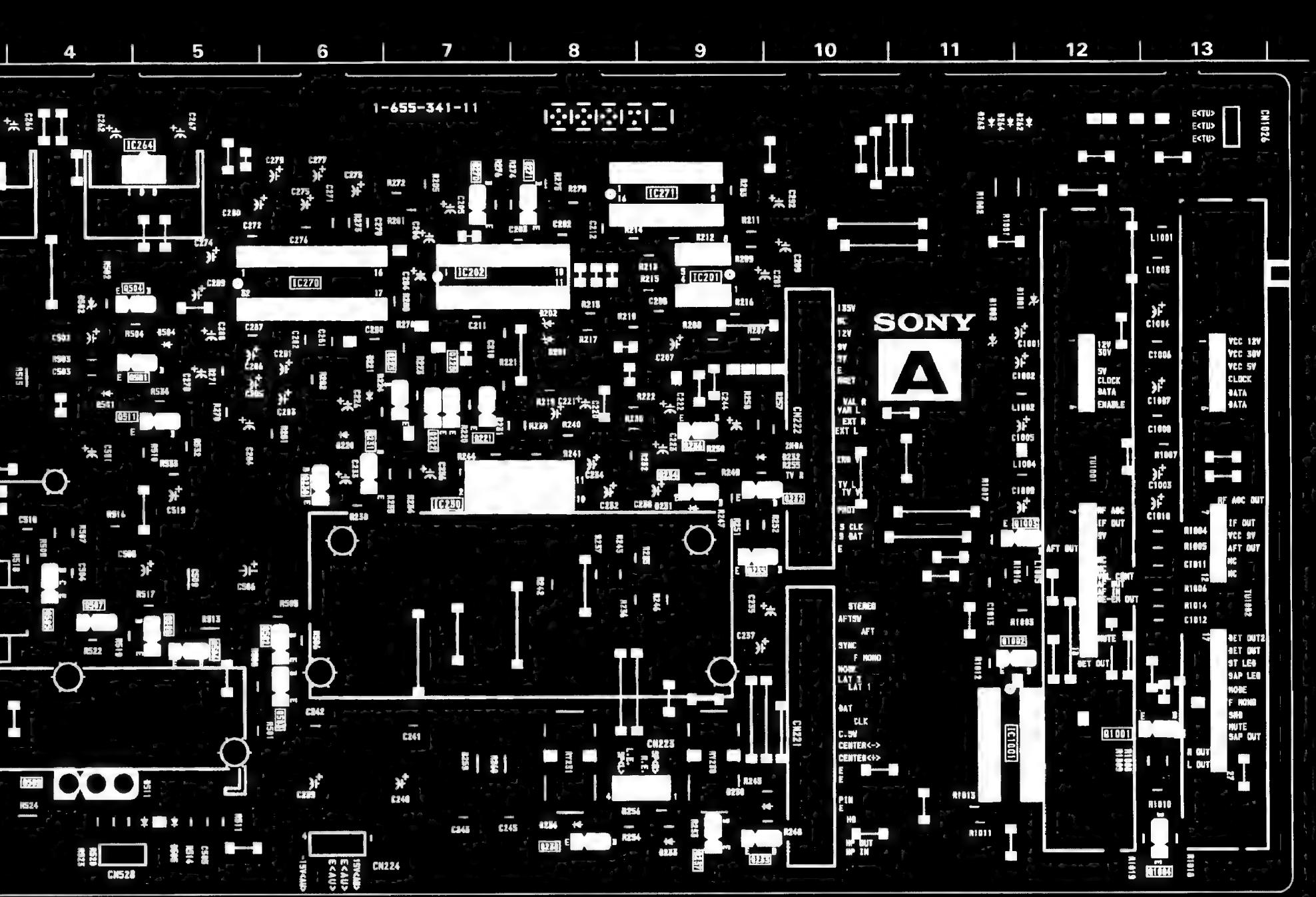
- A BOARD -

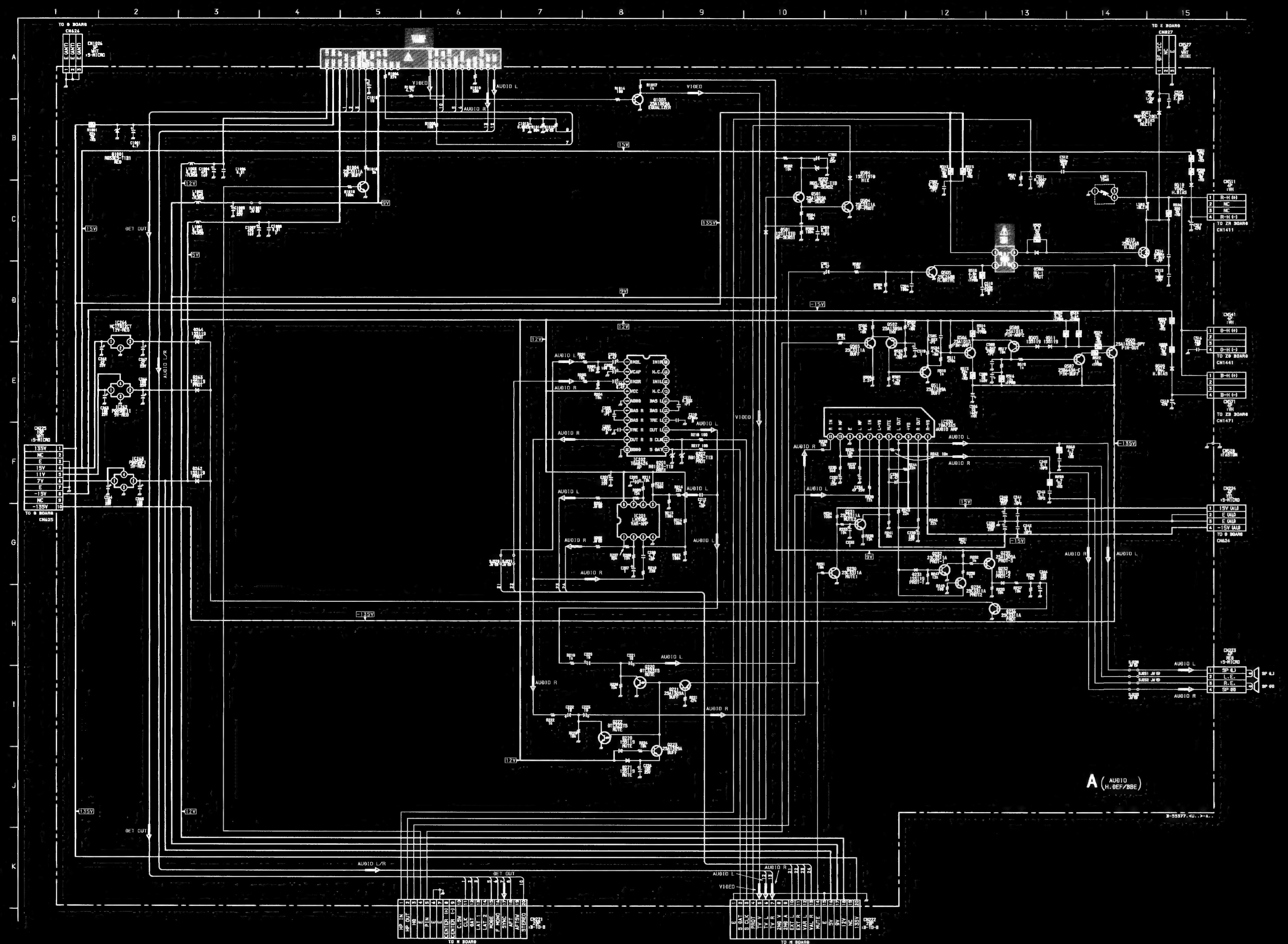
A BOARD

IC	Q509	F - 4
IC201	Q510	F - 2
IC202	Q511	C - 5
IC230	Q1003	D - 12
IC262	Q1004	G - 13
IC263		
IC264		

DIODE	
D201	
D202	
D220	
D221	
D232	
D262	
D231	C - 7
D223	C - 7
D230	D - 6
D234	D - 9
D235	E - 10
D236	D - 9
Q501	C - 5
Q502	E - 6
Q503	E - 6
Q504	B - 5
Q505	E - 4
Q506	E - 5
Q507	E - 4
D1001	B - 12

TRANSISTOR
Q220
Q221
Q223
Q230
Q231
Q232
Q233
Q234
Q235
Q236
Q501
Q502
Q503
Q504
Q505
Q506
Q507
Q508





A BOARD TRANSISTOR VOLTAGE LIST

	E	C	D
Q220	GND	0	2.8
Q221	2.8		2.2
Q222	GND	0	2.8
Q223	11.9	2.8	11.1
Q230	GND	0	0.7
Q231	0	10.5	0
Q232	GND	9.0	0
Q234	0	9.0	0
Q235	9.0	0	9.0
Q236	GND	1.6	0
Q501	3.2	0	1.1
Q502	6.9	0.9	6.4
Q503	3.1	6.9	3.7
Q504	GND	4.9	0
Q505	GND	63.7	-0.7
Q506	2.1	54.0	1.6
Q507	-124.3	-137.3	-121.6
Q508	2.1	-121.6	1.7
Q509	-122.9	-137.3	-123.2
Q510	-122.9	*	-123.5
Q511	1.6	GND	0.9
Q1003	5.6	GND	5.1
Q1004	GND	0	0

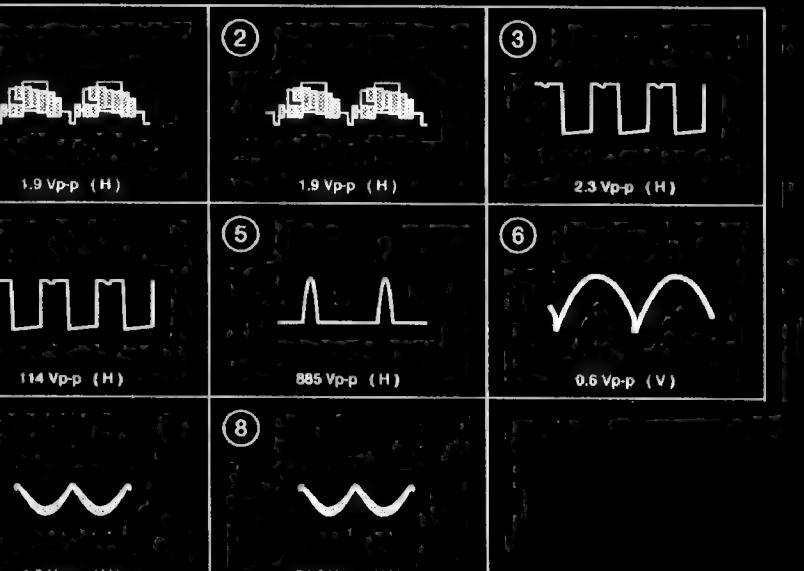
* : MEASUREMENT IMPOSSIBILITY

A BOARD IC VOLTAGE LIST

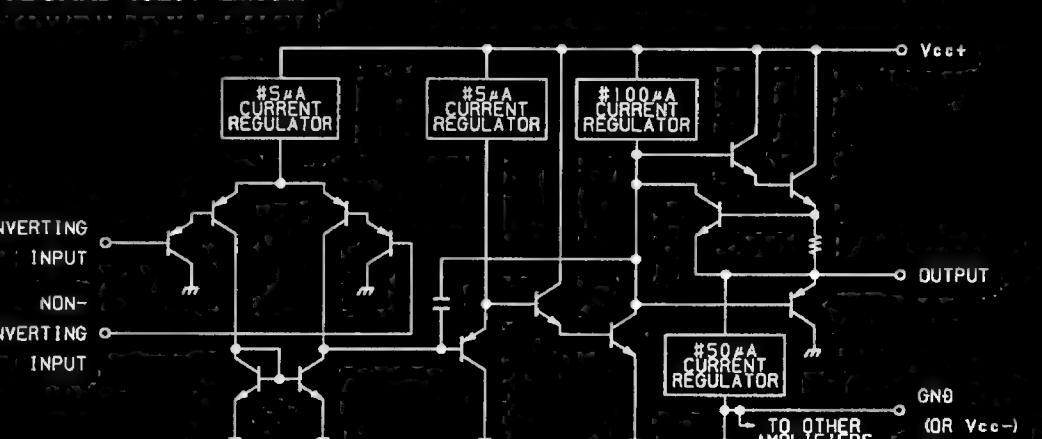
	IC201	IC202	IC230	IC262	IC263	IC264
1	1 6.1	1 6.0	1 -163	1 11.0	1 7.0	1 15.0
2	2 6.1	2 12.0	2 0	2 9.0	2 5.0	2 GND
3	3 6.1	3 6.1	3 15.0	3 6.1	3 GND	3 12.0
4	4 GND	4 GND	4 10.8	4 11.0	4 7.0	4 12.0
5	5 6.1	5 GND	5 163	5 6.1	5 NC	5 NC
6	6 6.1	6 6.1	6 -163	6 NC	6 NC	6 NC
7	7 6.1	7 6.1	7 0	7 0	7 NC	7 NC
8	8 12.0	8 12.0	8 11.0	8 11.0	8 7.0	8 12.0

ALL VOLTAGES ARE IN V

A BOARD WAVEFORMS



A BOARD IC201 LM358P



D BOARD IC VOLTAGE LIST

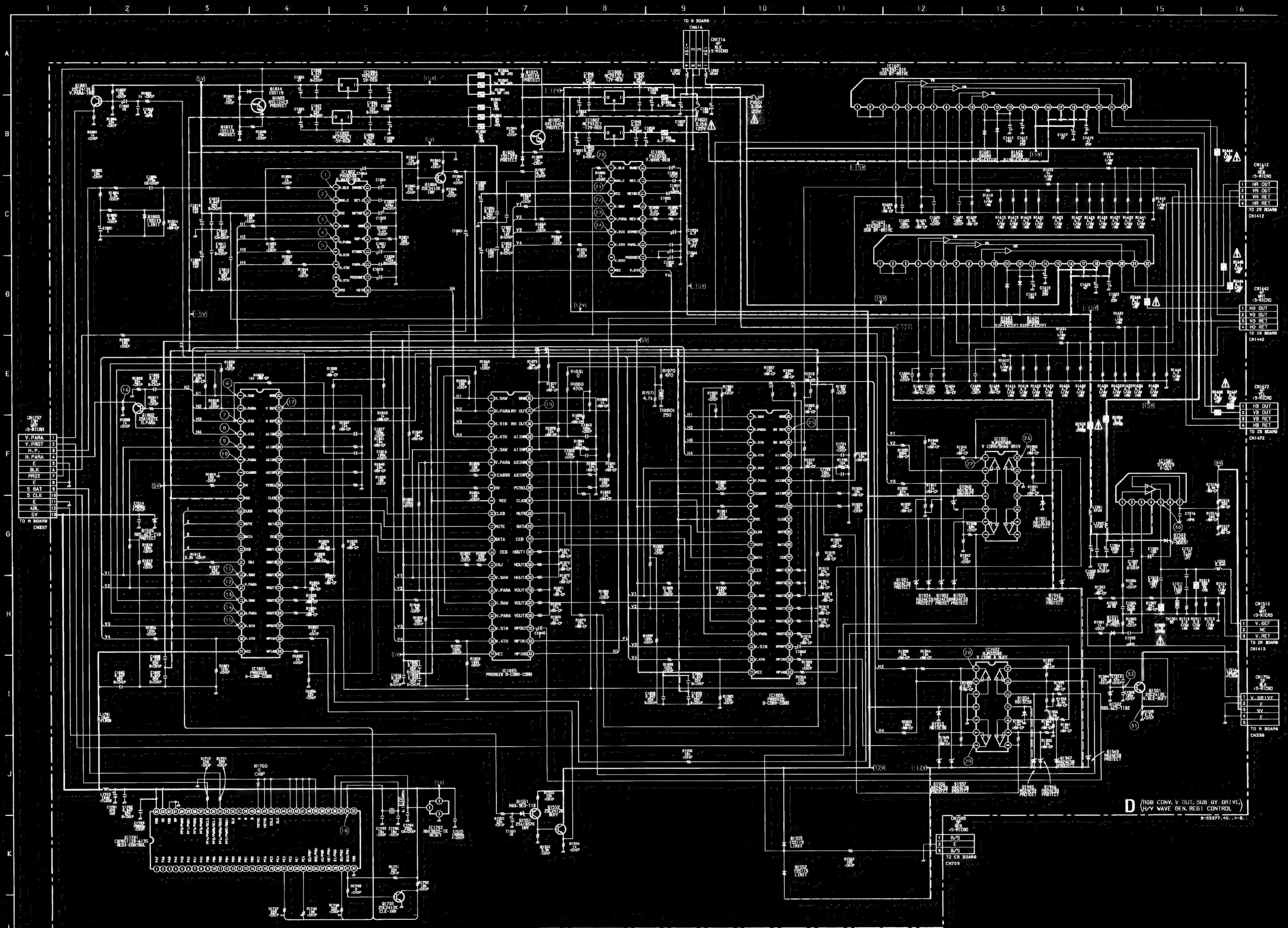
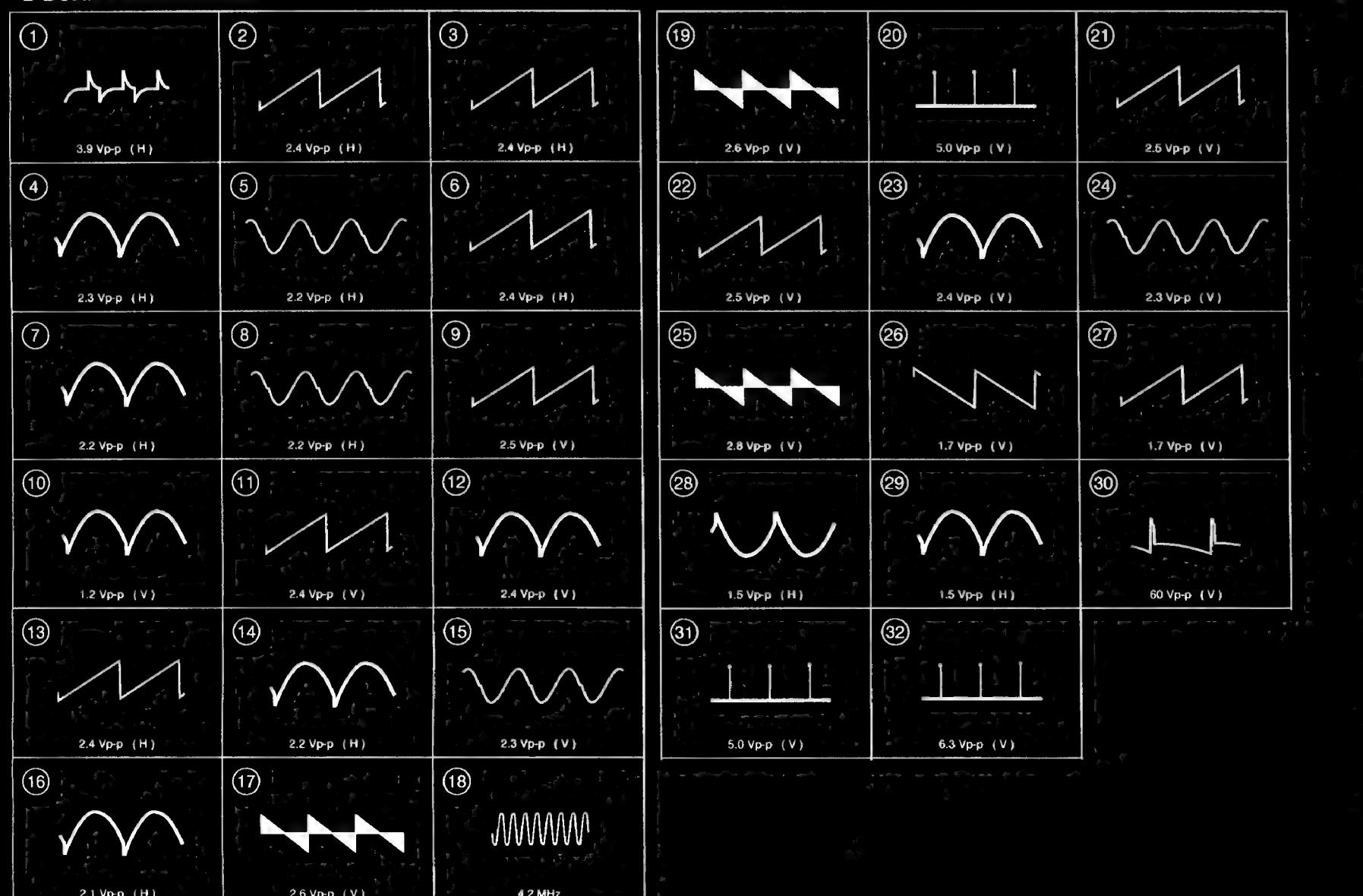
ALL VOLTAGES ARE IN V

IC1501	1 1.5	3 -13.8	6 0.3	7 1.5	
	2 1.50	4 -16.0	5 6 15.0		
IC1601	1 -13.2	6 0.4	11 14.2	16 -15.0	21 0
	2 -13.3	7 0.4	12 -14.3	17 -15.0	22 0
	3 -13.2	8 GND	13 -14.3	18 15.0	
	4 0	9 0	14 14.2	19 -15.0	
	5 0	10 0	15 15.0	20 0	
IC1602	1 -13.2	6 -0.1	11 14.2	16 -15.0	21 -0.9
	2 -13.3	7 NC	12 -14.3	17 -15.0	22 0.3
	3 -13.2	8 GND	13 -14.3	18 15.0	
	4 0.2	9 -0.5	14 14.2	19 -15.0	
	5 0.2	10 -0.5	15 15.0	20 -0.2	
IC1701	1 NC	15 NC	29 NC	43 0	57 NC
	2 NC	16 NC	30 0.7	44 0	58 NC
	3 NC	17 NC	31 0.3	45 NC	59 NC
	4 NC	18 NC	32 GND	46 GND	60 NC
	5 NC	19 NC	33 NC	47 GND	61 GND
	6 NC	20 NC	34 2.7	48 GND	62 GND
	7 NC	21 5.1	35 2.5	49 NC	63 5.0
	8 NC	22 NC	36 5.2	50 NC	64 5.0
	9 NC	23 NC	37 NC	51 NC	
	10 NC	24 3.2	38 NC	52 NC	
	11 NC	25 NC	39 0	53 NC	
	12 NC	26 NC	40 0	54 4.7	
	13 NC	27 NC	41 0	55 NC	
	14 NC	28 NC	42 0	56 4.6	
IC1702	1 5.2	2 5.0	3 GND		
IC1801	1 0	10 3.4	19 0	28 0	37 0
	2 -0.9	11 5.1	20 -0.5	29 0	38 0
	3 0	12 0.7	21 5.0	30 0	39 0
	4 -1.1	13 3.2	22 0	31 3.2	40 0.2
	5 0	14 -2.3	23 1.5	32 0.7	41 0
	6 -0.4	15 0	24 0	33 5.2	42 GND
	7 GND	16 -0.9	25 0	34 3.4	
	8 5.2	17 0	26 0	35 0	
	9 -5.0	18 -0.5	27 0	36 0	
IC1802	1 0.8	5 -0.5	9 -5.0	13 0.4	17 1.3
	2 1.2	6 0	10 0.3	14 1.3	18 -1.6
	3 5.0	7 -1.1	11 0.6	15 GND	
	4 0	8 0	12 -0.9	16 -1.7	

D BOARD TRANSISTOR VOLTAGE LIST

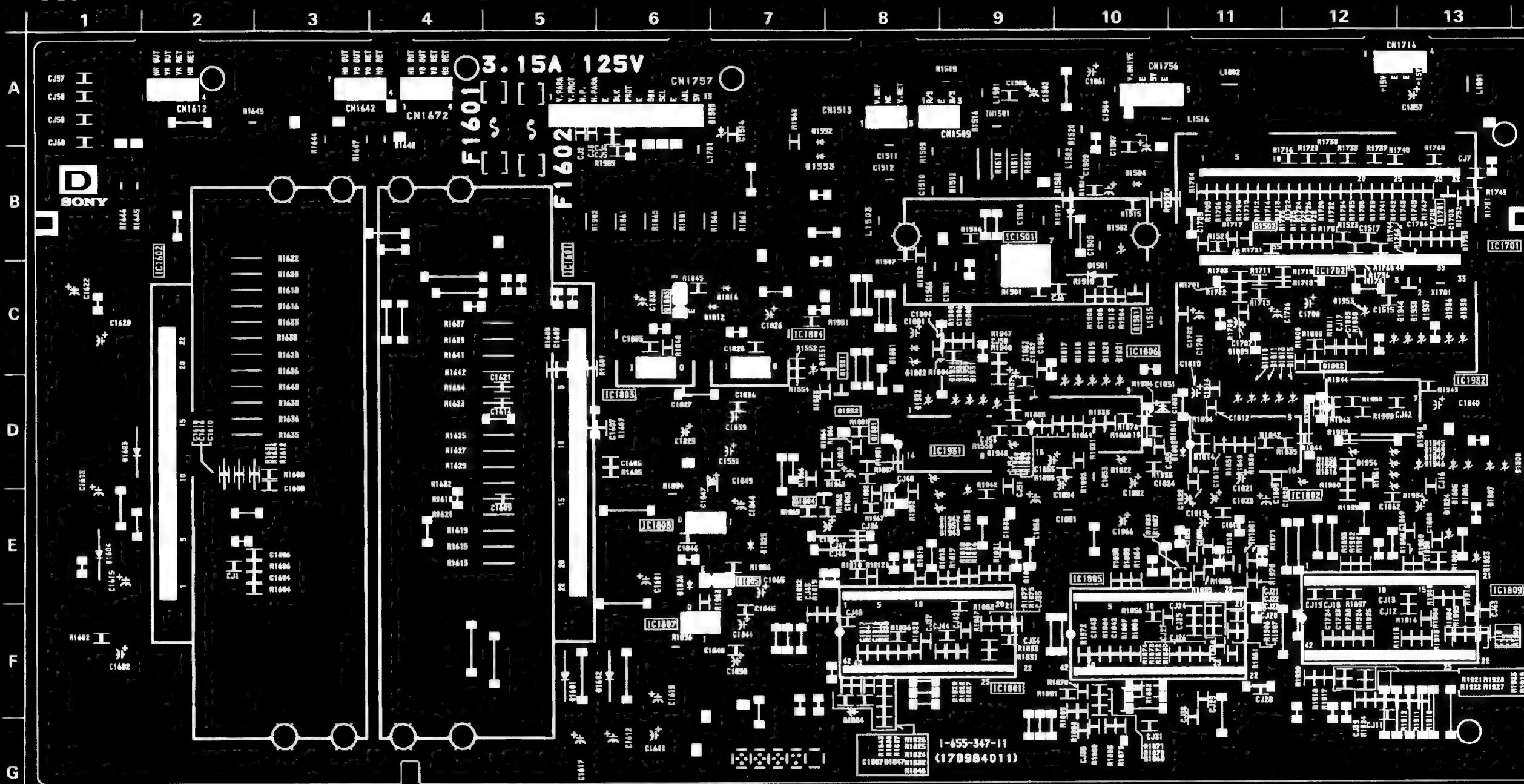
Q1501	E	C	B
Q1551	0.2	9.0	-0.5
Q1552	4.0	2.1	3.4
Q1553	1.5	12.0	2.1
Q1701	GND	3.5	0.3
Q1801	2.6	5.0	3.2
Q1802	-2.8	-5.0	-3.1
Q1803	GND	4.8	0
Q1804	-0.2	0	0.9
Q1805	GND	4.8	0

D BOARD WAVEFORMS



D [RGB CONV, V OUT, SUB DY DRIVE,
H/V WAVE GEN, REGI CONTROL]

- D BOARD -

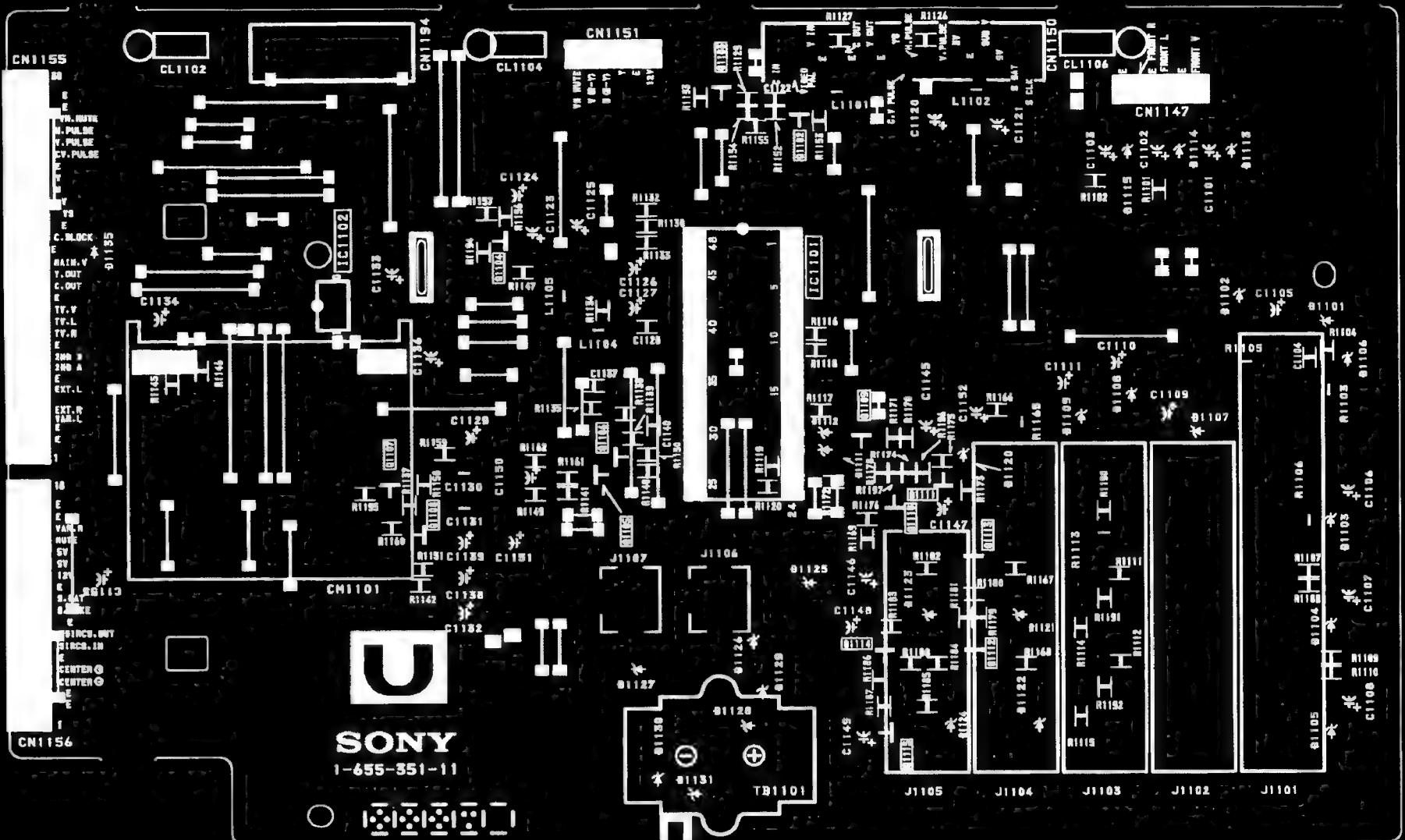


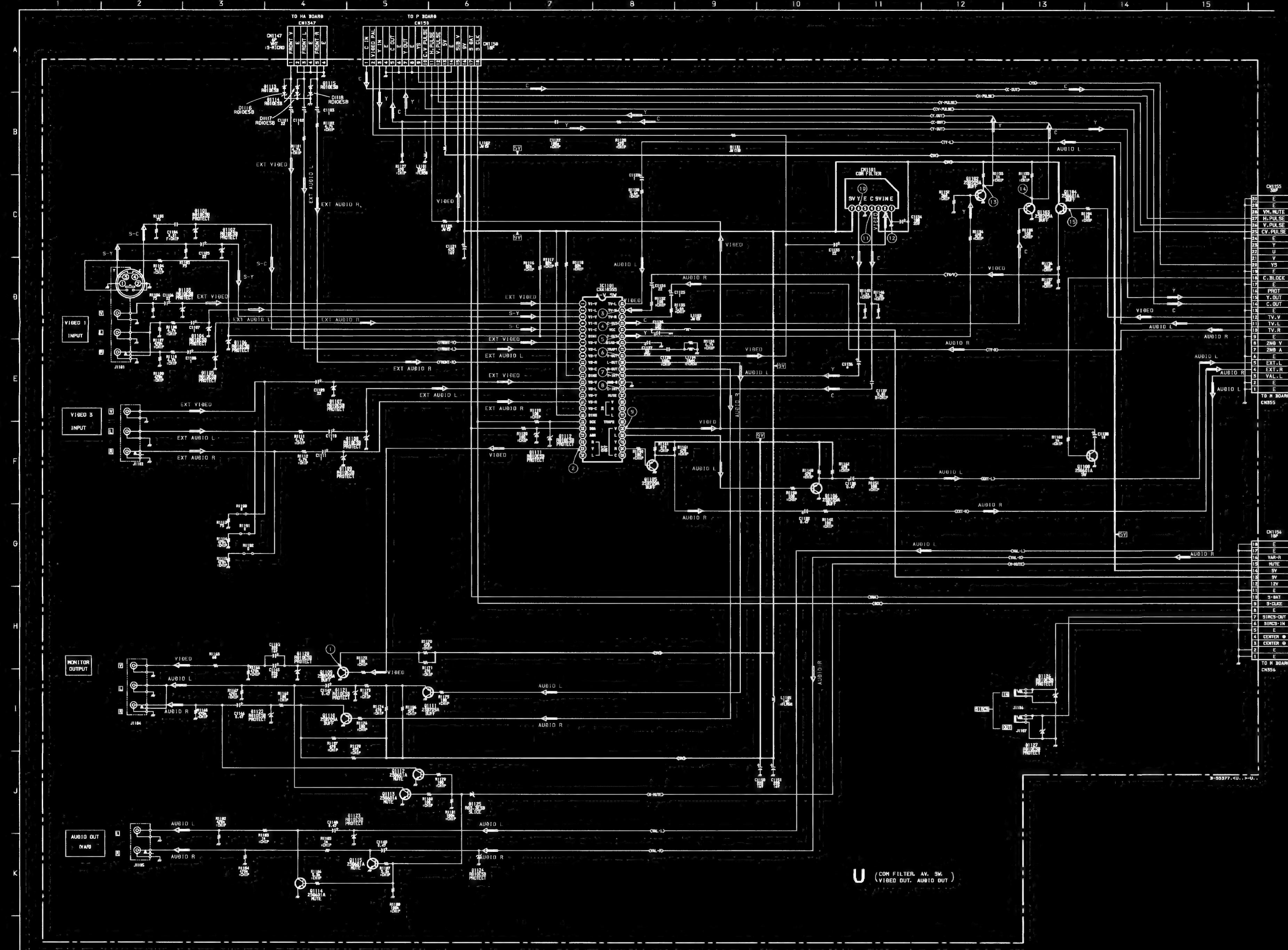
D BOARD

IC	IC1807	F - 7	Q1802	C - 12	D1601	F - 5	D1935	D - 9	
	IC1808	E - 7	Q1803	C - 6	D1602	F - 6	D1936	C - 13	
IC1501	C - 9	IC1809	F - 12	Q1804	E - 8	D1603	D - 2	D1937	C - 13
IC1601	C - 5	IC1931	D - 9	Q1805	E - 7	D1604	E - 1	D1942	E - 9
IC1602	D - 2	IC1932	D - 13			D1803	D - 11	D1945	D - 13
IC1701	B - 12			DIODE		D1812	C - 7	D1946	E - 13
IC1702	C - 12			D1501	C - 10	D1814	C - 7	D1947	E - 13
IC1801	F - 9	Q1501	C - 10	D1502	B - 10	D1825	E - 7	D1948	D - 9
IC1802	D - 12	Q1502	B - 11	D1503	B - 10	D1826	E - 6	D1949	D - 13
IC1803	D - 6	Q1551	D - 8	D1505	A - 6	D1827		D1951	E - 9
IC1804	D - 7	Q1552	D - 8	D1551	D - 8	D1931	D - 9	D1953	C - 12
IC1805	F - 10	Q1701	B - 13	D1552	B - 8	D1932	D - 9	D1954	D - 12
IC1806	D - 10	Q1801	D - 8	D1553	B - 8	D1934	D - 9		

[COM FILTER, AV, SW,
VIDEO OUT, AUDIO OUT]

- U BOARD





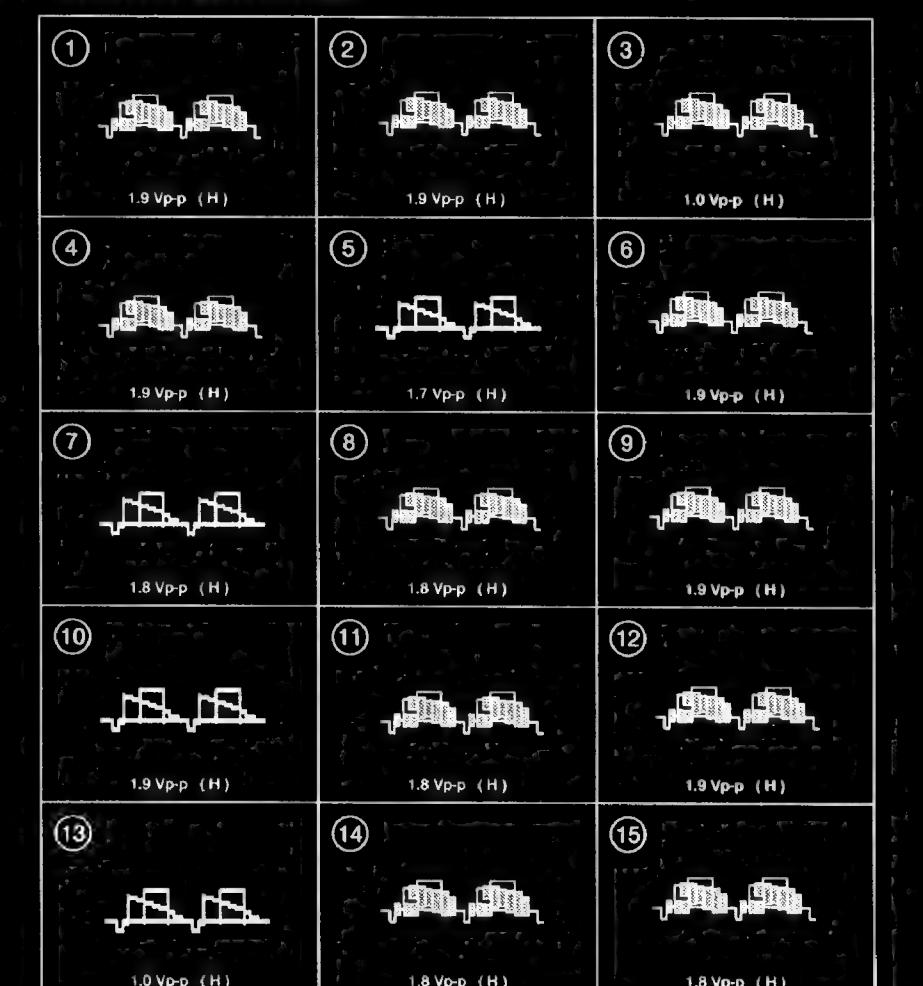
U BOARD IC VOLTAGE LIST

	1 GND	3 9.0	5 GND	7 9.0
	2 5.4	4 5.3	6 5.3	
IC1101	1 4.7	11 NC	21 4.7	41 4.7
	2 4.7	12 5.0	22 NC	42 4.7
	3 4.7	13 4.7	23 4.6	43 4.4
	4 4.7	14 4.7	24 NC	44 9.0
	5 4.7	15 NC	25 4.7	45 4.7
	6 5.0	16 4.7	26 4.8	46 4.7
	7 3.6	17 NC	27 NC	47 4.7
	8 4.7	18 5.0	28 4.8	48 4.7
	9 NC	19 4.6	29 4.6	39 4.8
	10 4.7	20 4.6	30 4.7	40 4.6

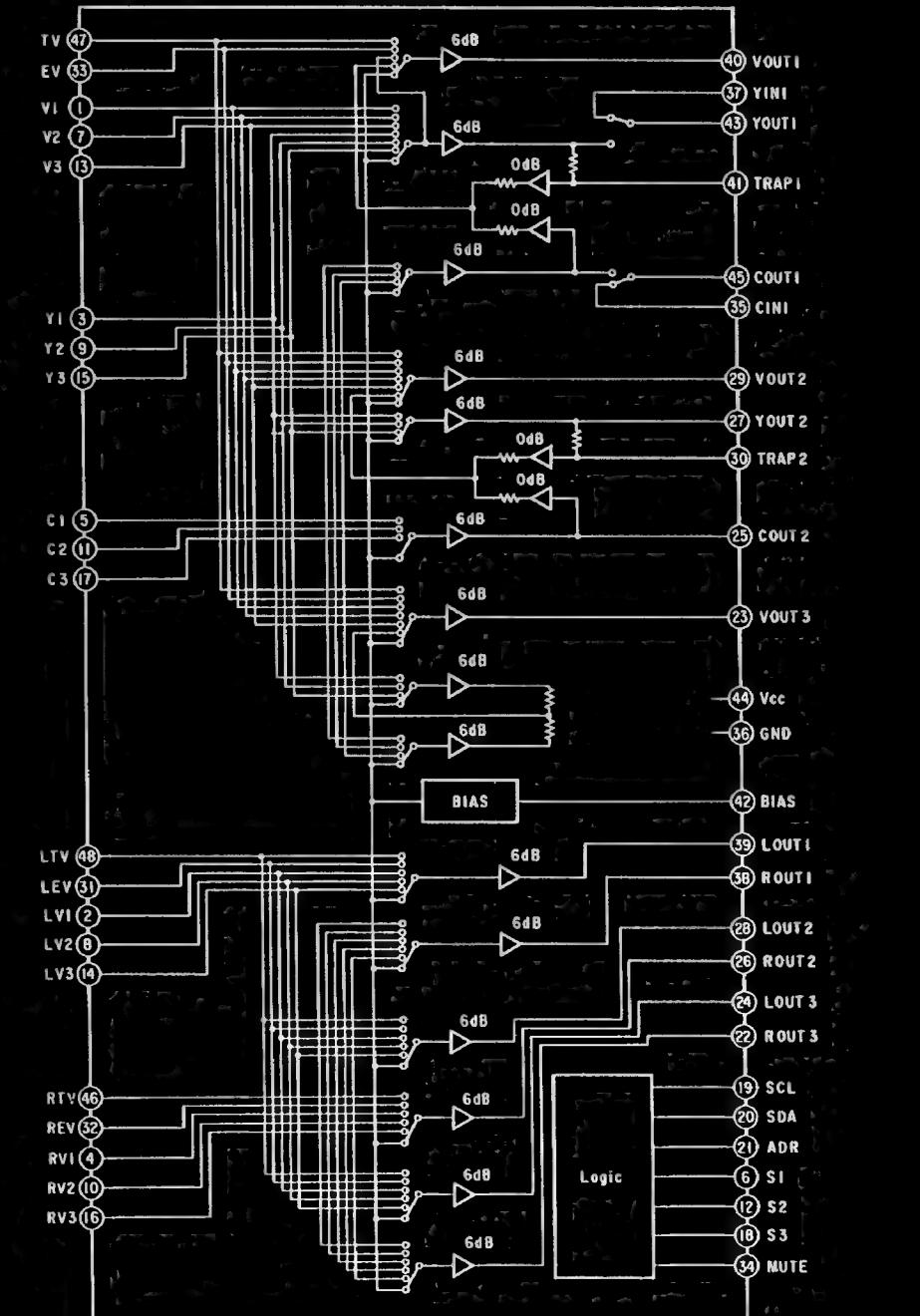
U BOARD TRANSISTOR VOLTAGE LIST

	E	C	B
Q1102	3.1	GND	2.5
Q1103	5.3	GND	4.7
Q1104	5.1	9.0	5.8
Q1105	5.4	GND	4.8
Q1106	6.4	GND	4.8
Q1107	0	9.0	-0.3
Q1108	GND	0.9	-1.1
Q1109	5.3	GND	4.6
Q1110	5.4	GND	4.8
Q1111	5.4	GND	4.8
Q1112	GND	0	0
Q1113	GND	0	0
Q1114	GND	0	0
Q1115	GND	0	0

U BOARD WAVEFORMS



U BOARD IC CXA1855S



M BOARD IC VOLTAGE LIST

ALL VOLTAGES ARE IN V M BOARD TRANSISTOR VOLTAGE LIST

IC001	1	12.0	2	GND	3	5.0
IC002	1	0.8	15	0	29	0
	2	0.2	16	0	30	5.0
	3	4.8	17	0	31	5.0
	4	4.6	18	5.1	32	GND
	5	0	19	0	33	0
	6	5.2	20	0	34	2.6
	7	5.1	21	0	35	2.3
	8	0	22	0	36	5.1
	9	0	23	0	37	0
	10	5.1	24	0	38	5.1
	11	0	25	0	39	2.3
	12	0	26	5.1	40	GND
	13	0	27	5.1	41	6.1
	14	0	28	0	42	5.1

IC003	1	GND	3	GND	5	4.6
	2	GND	4	GND	6	4.6

IC004	1	0	5	0	9	GND
	2	5.0	6	0	10	13
	3	0	7	0	11	1.8
	4	NC	8	0.9	12	1.7

IC005	1	GND	3	GND	5	4.6
	2	5.1	4	GND	6	4.6

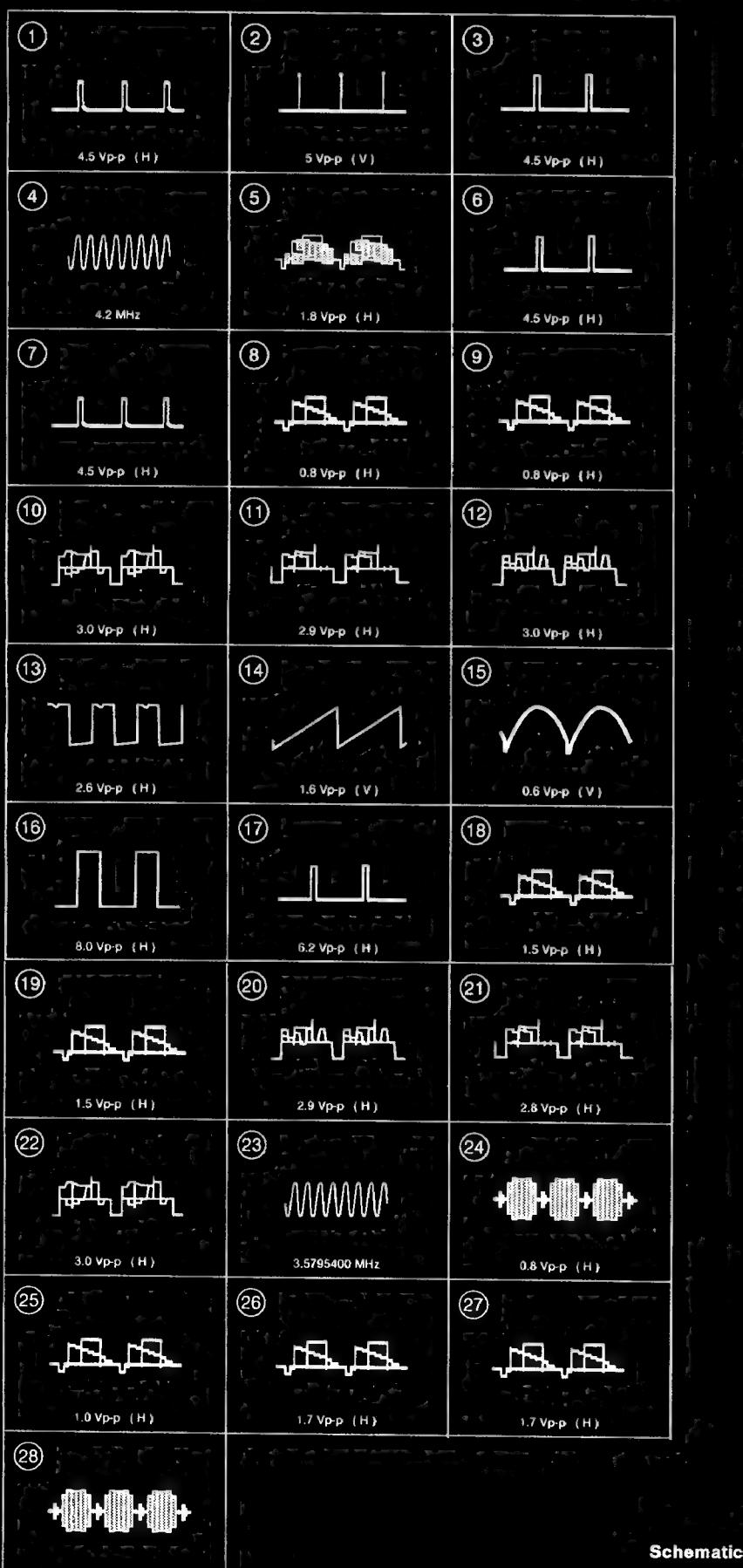
IC006	1	5.1	2	5.2	3	GND
-------	---	-----	---	-----	---	-----

IC301	1	4.4	11	0	21	0
	2	7.4	12	5.0	22	1.7
	3	5.4	13	5.7	23	1.7
	4	GND	14	5.7	24	1.6
	5	4.1	15	GND	25	5.4
	6	5.5	16	6.0	26	NC
	7	2.5	17	6.0	27	*
	8	9.0	18	6.0	28	8.9
	9	0	19	6.0	29	NC
	10	0	20	0	30	3.0

IC302	1	5.0	2	GND	3	9.0
-------	---	-----	---	-----	---	-----

*: MEASUREMENT IMPOSSIBILITY

M BOARD WAVEFORMS



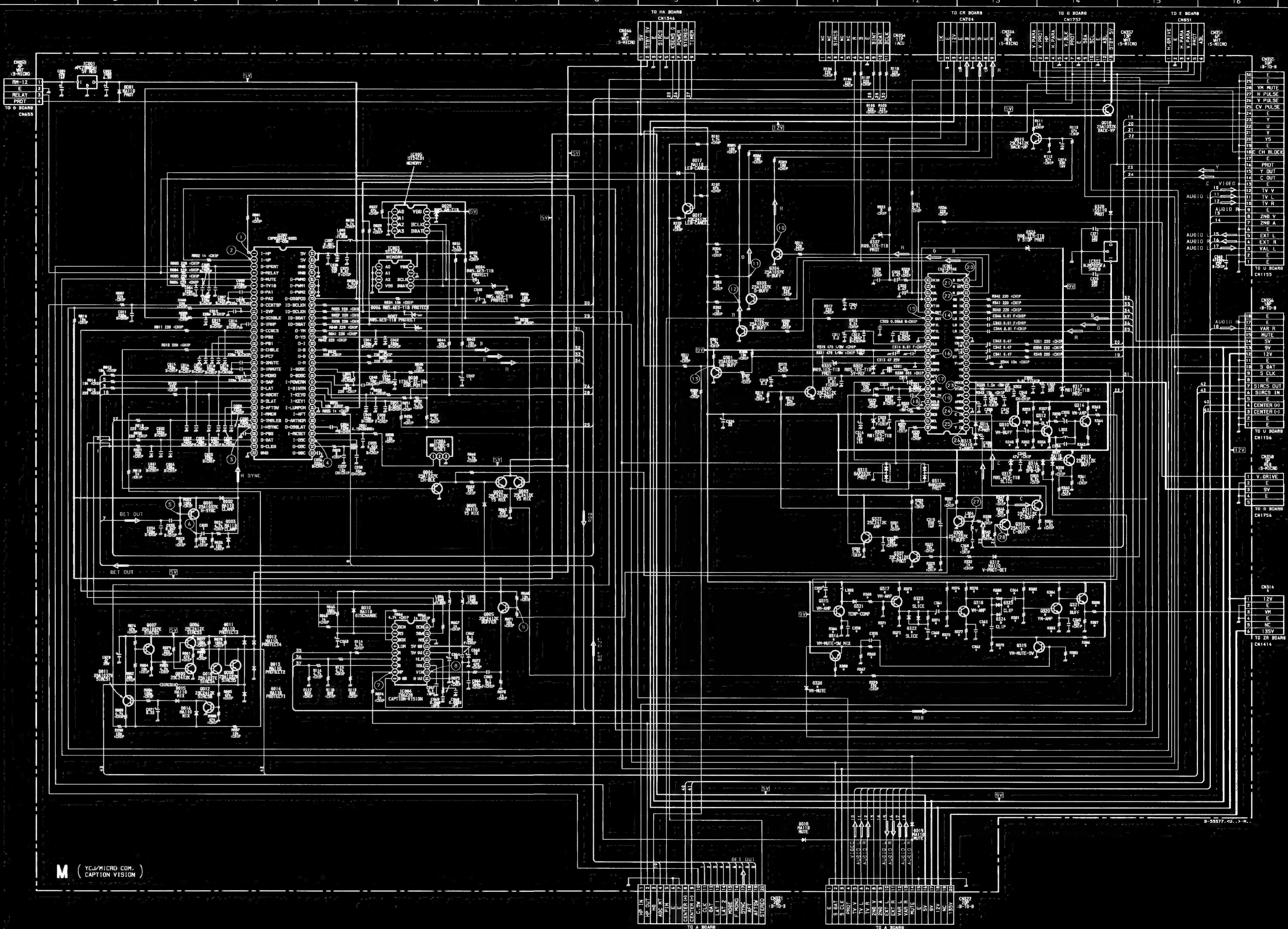
M BOARD * MARK

Ref.No.	KP-41T15(U/C)	KP-46S15(U/C)	KP-53S15(U/C)
C350	10.50V		
C354	220		
C355	22.50V		
C357	47.25V		
C358	15		
C359	220p		
C360	10.50V		
C361	10.50V		
C362	22p		
C363	0.001		
C364	10.50V		
CN314	6p		
D320			
D321	MA110		
D322	MA110		
D323	MA110		
D324	MA110		
D325	MA110		
L302	22.5H		
L303	39.5H		
Q310	ZSC2412K		
Q312	ZSC2412K		
Q314	ZSC2412K		
Q315	ZSC2412K		
Q316	ZSC2412K		
Q317	ZSC2412K		
Q318	ZSC2412K		
Q319	ZSC2412K		
Q320	ZSC2412K		
Q321	ZSC2412K		
R348	1k		
R352	2.2k		
R353	60		
R356	180		
R357	180		
R359	330		
R362	270		
R363	1k		
R364	100		
R366	1.5k		
R367	2.2k		
R368	3.3k		
R369	3.3k		
R371	1k		
Ref.No.	KP-41T15(U/C)	KP-46S15(U/C)	KP-53S15(U/C)
R372	1.2k		
R373	270		
R374	1.2k		
R375	60k		
R376	560		
R377	560		
R378	2.7k		
R379	27k		
R380	100k		
R381	8.2k		
R382	360		
R383	560		
R384	1.5k		
R385	33k		
R386	1m		
R387	1k		
R388	0		
R389	220		

NOT MOUNT

Schematic diagrams

M board



SPECIFICATIONS

Projection system	3 picture tubes, 3 lenses, horizontal in-line system
Picture tube	7 inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquid cooling system
Projection lenses	High performance, large-diameter hybrid lens F1.0
Screen size (measured diagonally)	
KP-41T15	41 inches
KP-46S15	46 inches
KP-53S15	53 inches
Screen brightness	
KP-41T15	1900 cd/m ²
KP-46S15	1500 cd/m ²
KP-53S15	1200 cd/m ²
Television system	American TV standards
Channel coverage	VHF : 2-13 / UHF : 14-69 / CATV : 1-125
Antenna	75 ohm external antenna terminal for VHF/UHF
Inputs/output	<p>VIDEO IN 1</p> <p>S VIDEO IN (4-pin mini DIN) :</p> <p>Y : 1 Vp-p, 75-ohms unbalanced, sync negative</p> <p>C : 0.286 Vp-p (Burst signal) 75 ohms</p> <p>VIDEO (phone jack) :</p> <p>1 Vp-p, 75-ohms unbalanced, sync negative</p> <p>AUDIO (phone jacks) :</p> <p>500 mVrms (100% modulation)</p> <p>Impedance : 47 kilohms</p> <p>VIDEO INPUT 2 and VIDEO IN 3</p> <p>VIDEO (phone jacks) :</p> <p>1 Vp-p, 75-ohms unbalanced, sync negative</p> <p>AUDIO (phone jacks) :</p> <p>500 mVrms (100% modulation)</p> <p>Impedance : 47 kilohms</p> <p>MONITOR OUT</p> <p>VIDEO (phone jack) :</p> <p>1 Vp-p, 75-ohms unbalanced, sync negative</p> <p>AUDIO (phone jacks) :</p> <p>500 mVrms (100% modulation)</p> <p>Impedance : 10 kilohms</p> <p>AUDIO OUT (phono jacks) :</p> <p>900 mVrms (100% modulation)</p> <p>Impedance : 5 kilohms</p>
Speaker	<p>Full range speaker</p> <p>100 mm (3.9 inches) diameter</p>
Speaker output	7 W x 2
Power requirement	120 V, 60 Hz

Power consumption 220 W
Standby mode : 4 W

	Dimensions (W/H/D)	Mass
KP-41T15	950 x 1,000 x 588 mm (37 1/2 x 39 3/8 x 23 1/4 inches)	51 kg (112 lbs 7 oz)
KP-46S15	1,066 x 1,306 x 543 mm (41 3/4 x 51 1/2 x 21 1/2 inches)	70 kg (154 lbs 5 oz)
KP-53S15	1,218 x 1,413 x 594 mm (48 x 55 3/4 x 23 1/2 inches)	75 kg (165 lbs 6 oz)

Supplied accessories Remote commander RM-Y118 (1)
Size AA (R6) battery (1)

Optional accessories U/V mixer EAC-66
Connecting cables RK-74A,
VMC-810S/820S, YC-15V/30V,
VMC-720M

Video tray SU-PJT2 (For KP-46S15,
KP-53S15)
Stand SU-41X1 (For KP-41T15)
Contrast screen
SCN-41T1 (For KP-41T15)
SCN-46X1 (For KP-46S15)
SCN-53X1 (For KP-53S15)

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

(US model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

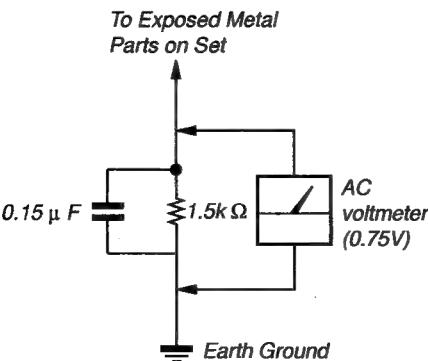


Fig. A. Using an AC voltmeter to check AC leakage.

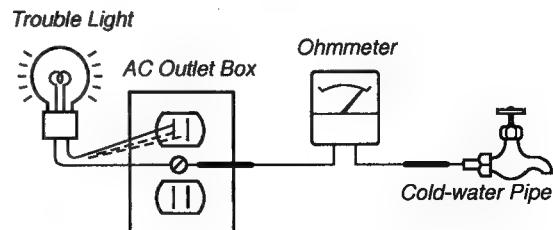


Fig. B. Checking for earth ground.

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(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED
TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

SAFETY RELATED COMPONENT WARNING:
COMPONENTS IDENTIFIED BY SHADING AND MARK Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

**AFIN D'EVITER TOUT RISQUE DE ELECTROCUTION PROVENANT
D'UN CHASSIS SOUS TENSION, UN TRANSFORMATEUR
D'ISOLEMENT DOIT ETRE UTILISE LORS DE TOUT DEPANNAGE.
LE CHASSIS DE CE RECEPTEUR EST DIRECTEMENT RAC-
CORDÉ À L'ALIMENTATION SECTEUR.**

ATTENTION AUX COMPOSANTS RELATIFS Á LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE ▲ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDICUIT DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LIORSQ'UN MAL FAISAN FONCTIONNEMENT EST SUSPECTÉ.

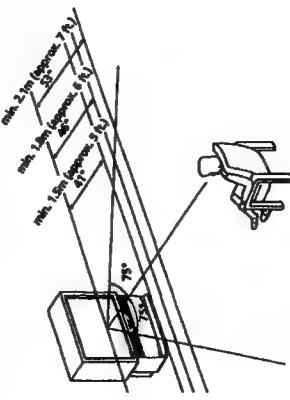
SECTION1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

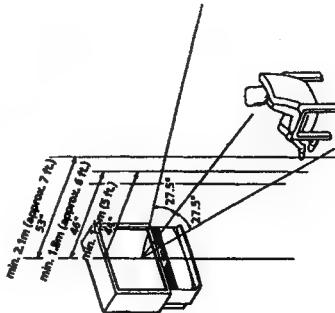
Step 1: Installing the projection TV

For the best picture quality, install the projection TV within the areas shown below:

Optimum viewing area (Horizontal)

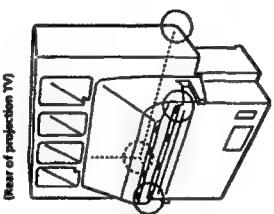


Optimum viewing area (Vertical)



Carrying your projection TV

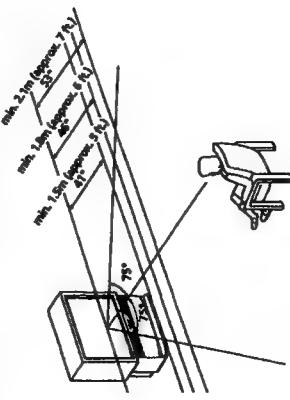
Be sure to grasp the portions indicated when carrying the projection TV, and to use more than two people.



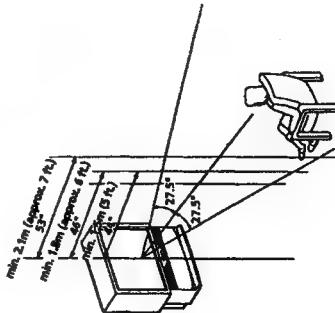
Step 2: Connections

For the best picture quality, install the projection TV within the areas shown below:

Optimum viewing area (Horizontal)



Optimum viewing area (Vertical)



The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

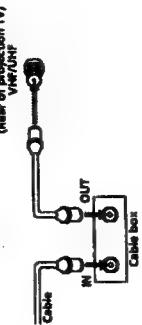
Connecting an antennal/cable TV system without a VCR

To cable or antenna



To cable box

If your cable company requires you to connect a cable box, make the connection as follows:



To an antenna

Although you can use either an indoor antenna or outdoor antenna with your projection TV, we recommend connecting to an outdoor antenna or a cable TV system for improved picture quality.

To a signal splitter

Connect your antenna cable to the VHF/UHF antenna terminal. If you cannot connect your antenna cable directly to the terminal, follow one of the instructions below depending on your cable type.

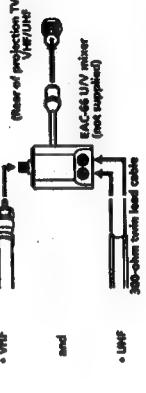
A • VHF only • VHF/UHF • Cable



B • VHF only • VHF/UHF • Cable



C • VHF • VHF only or • VHF/UHF or • Cable



Notes

- Most VHF/UHF combination antennas have a signal splitter.
- Remove the splitter before attaching the appropriate connector.
- If you use the U/V number, snow and noise may appear in the picture when viewing cable TV channels over 37(W+1).

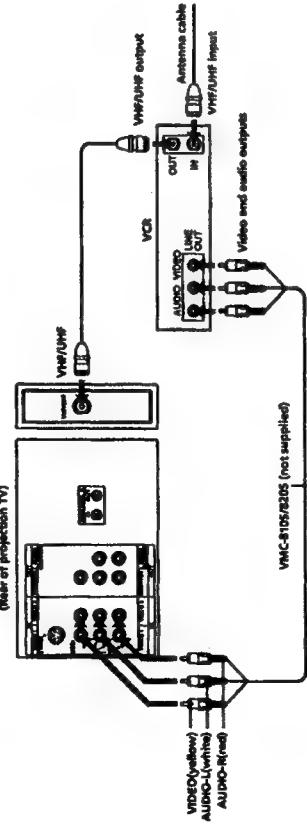
Connecting an antenna/cable TV system with a VCR

For details on connection, see the instruction manual of your VCR. Before connecting, disconnect the AC power cords of the equipment to be connected.

- After making these connections, you will be able to do the following:
 - View the playback of video tapes
 - Record one TV program while viewing another program
 - Watch two TV programs at one time using a window picture (Picture-in-Picture)

To a conventional VCR

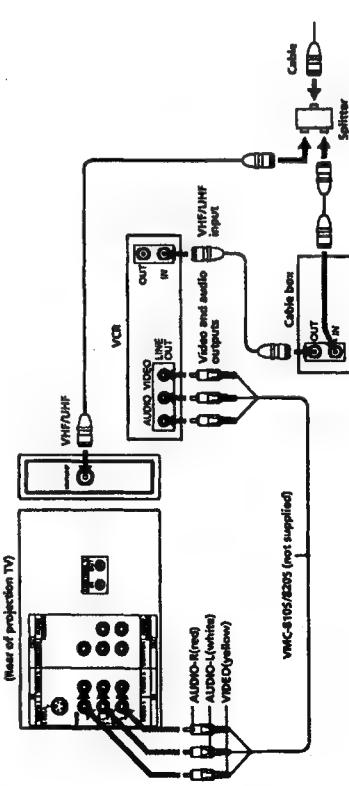
Without a cable box



Note

- To connect a monaural VCR, connect the audio output of the VCR to AUDIO L (MONO) or VIDEO 1/3 IN on the projection TV.

With a cable box

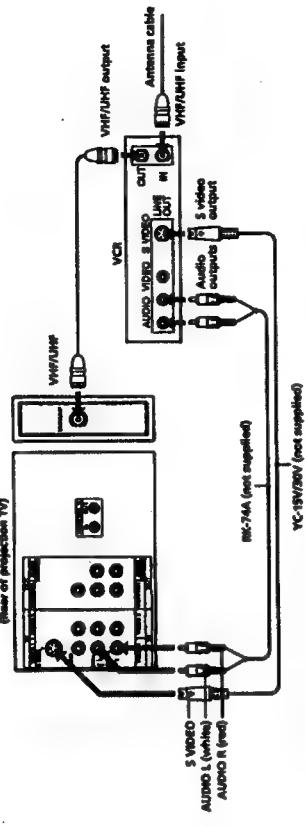


To an S video equipped VCR

If your VCR has an S video output jack, make the connection as follows.

- Whenever you connect the cable to the S VIDEO connector, the projection TV automatically receives S video signals.

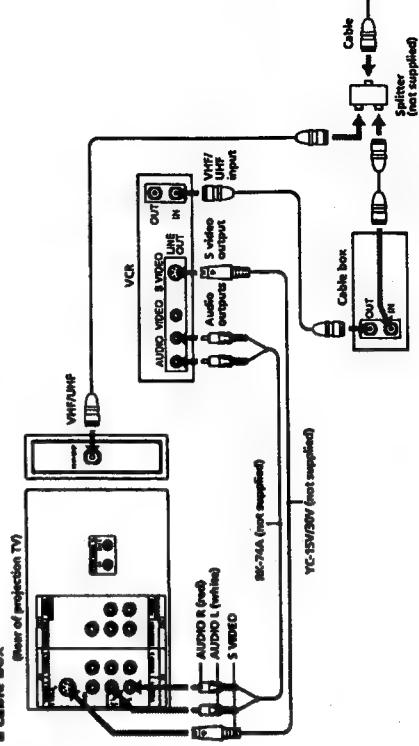
Without a cable box



Note

- Video signals are composed of Y (luminance) and C (chroma) signals. The S connection sends the two signals separately preventing degradation, and gives better picture quality compared to conventional connection.

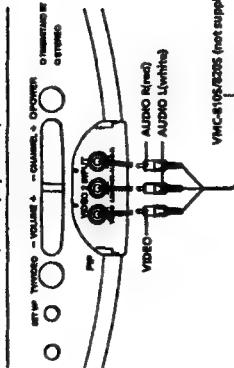
With a cable box



Connecting a camcorder

This connection is convenient for watching the picture from a camcorder.

(Front of projection TV)



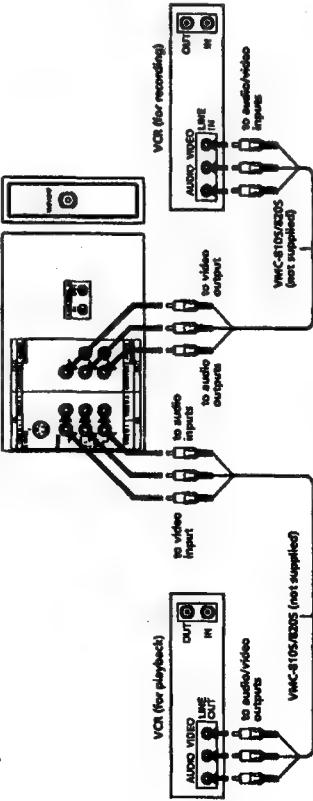
Note

- To connect a manual camcorder, connect the audio output of the camcorder to AUDIO L (MONO) or VIDEO 2 INPUT on the projection TV.

Connecting two VCRs for tape editing

You can record input images displayed on the screen. This type of connection should be used only when you connect from the line input of one VCR and from the line output of a second VCR.

(Front of projection TV)



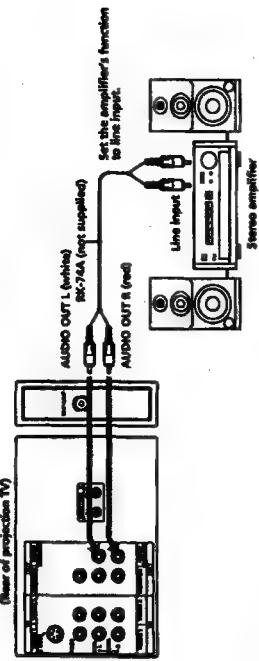
Notes

- Do not change the input signal while editing, as the output signal will also change.
- When connecting a single VCR to the projection TV, do not connect MONITOR OUT to the VCR's line input, while at the same time connecting from the projection TV's VIDEO IN jacks to the VCR's line output.
- You can use the S video connector to connect a VCR for playback and the composite video jack to connect a VCR for recording.

Connecting an audio system

When connecting audio equipment, see page 24 for more information.

(Front of projection TV)



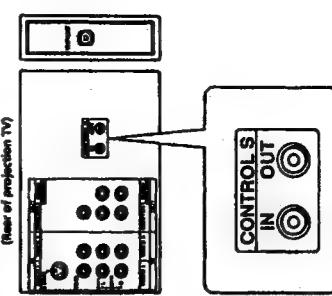
Note

- You can adjust the bass, treble and balance, or select surround or an MTS (multichannel TV Sound) mode with the supplied remote commander.

Connecting other Sony equipment with CONTROLS JACK

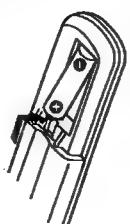
This feature allows you to control your projection TV and other Sony equipment with one remote commander.

- To control other Sony equipment with the projection TV's remote commander, connect the input of the equipment to CONTROLS OUT jack on the projection TV.
- To control the projection TV with the remote commander of other Sony equipment, connect the output of the equipment to CONTROLS IN jack on the projection TV.



Step 3: Setting up the remote commander

Insert one size AA (R6) battery (supplied) by matching the + and - on the battery to the diagram inside the battery compartment.



Notes

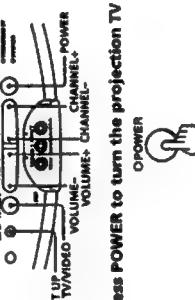
- With normal use, the battery should last for approximately six months.
- If you do not use the remote commander for an extended period of time, remove the battery to avoid possible damage from battery leakage.
- Do not handle the remote commander roughly. Do not drop it, step on it or let it get wet.
- Do not place the remote commander in direct sunlight, near a heater, or where the humidity is high.

Step 4: Setting up the projection TV automatically (AUTO SET UP)

You can set up your projection TV easily by using AUTO SET UP feature. It presetts all the receivable channels, adjusts the convergence and changes the on-screen menu language. To set up the TV manually, see "Resetting channels" (page 15), "Setting cable TV on or off" (page 14), "Adjusting convergence" (page 13) and "Changing the menu language" (page 15).

If the TV is set to a video input, you cannot execute AUTO SET UP. Press TV/VIDEO so that a channel number appears.

(front of projection TV)



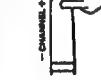
1 Press POWER to turn the projection TV on.



2 Press SET UP on the front of the projection TV.



- 3 Press CHANNEL+ to start AUTO SET UP.**
If you prefer Spanish or French to English, you can change the on-screen menu language. Press CHANNEL – for Spanish or VOLUME++ for French.

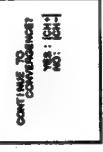


All of the menus will be set to the factory preset condition in the selected language.
(continued)

4 Press CHANNEL+ to preset channels.



"AUTO PROGRAM" appears on the screen and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the following menu appears. If the projection TV receives cable TV channels, CATV is set to ON automatically.



5 Adjust convergence.

(1) Press CHANNEL+.

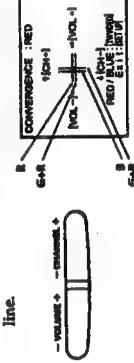
The CONVERGENCE adjustment screen appears.



(2) Press TV/VIDEO to select RED or BLUE.

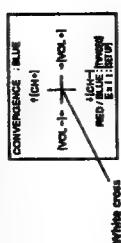


- (3) Using CHANNEL+/- or VOLUME+/-, move the line until it converges with the center green line.**



To move horizontal line up/down, press CHANNEL+/-.
To move vertical line right/left, press VOLUME+/-.

(4) Repeat steps (2) and (3) to adjust the other lines until all three lines converge and are seen as a white cross.

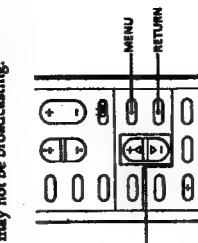


Note
• If more than 90 seconds elapse after you press a button, the menu disappears automatically.

To preview the main functions (DEMO)
Press VOLUME+ in step 3. The functions and menus are displayed one by one.

Erasing or adding channels

After AUTO SET UP you can erase unnecessary channels or add the channels you want. Preset channels during the day rather than late at night, when some channels may not be broadcasting.



- 1 Press MENU.**
The main menu appears.



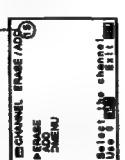
- 2 Press + Δ or - Δ to move the cursor (→) to SET UP and press RETURN.**
The SET UP menu appears.



- 3 Make sure the cursor (>) is beside CHANNEL ERASE/ADD and press RETURN.**
If the cursor is not beside CHANNEL ERASE/ADD, Press + or - to move the cursor and press RETURN.
The CHANNEL ERASE/ADD menu appears.



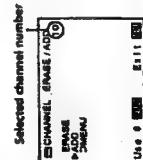
- 4 Erase and/or add the channel you want:**
To erase an unwanted channel:
(1) Make sure the cursor (>) is beside ERASE.
(2) Press CH + or - to select the channel you want to erase.



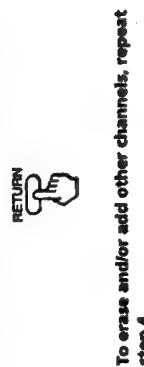
- (3) Press RETURN.**
The indication “-” appears beside the channel number, showing that the channel is erased from the preset memory.



- To add a channel that you want:
(1) Press + or - to select ADD.
(2) Press 0-9 button to select the channel you want to add and press ENTER.



- (3) Press RETURN.**
The indication “+” appears beside the channel number, showing that the channel is added to the preset memory.



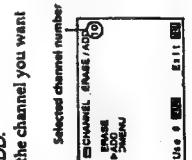
5 To erase and/or add other channels, repeat step 4.



- 6 When you finish, press MENU.**
- Notes**
- If you erase or add a VHF or UHF channel, the cable TV channel with the same number is also erased or added, and vice versa.
 - If more than 90 seconds elapse after you press a button, the menu disappears automatically.

Adjusting convergence (CONVERGENCE)

- The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs. To correct this, adjust convergence.
You do not have to do this procedure if you execute AUTO SET UP (page 11). Do this procedure only when you want to adjust it manually.



- To move up/right, press +. To move down/left, press -.
- 6 Repeat steps 4 and 5 to adjust other lines until all three lines converge and are seen as a white cross.**

7 Press MENU to return to the original screen.

(continued)

- 3 Press + or - to move the cursor (>) to CONVERGENCE and press RETURN.**
The CONVERGENCE adjustment screen appears.

If you have connected the projection TV to a cable TV system, set CABLE to ON; the factory setting. If not, set CABLE to OFF.
You do not have to do this procedure if you execute AUTO SET UP (page 11). Do this procedure only when you want to set it manually.



1 Press MENU.



5 Press MENU to return to the original screen.

Note

- If CABLE appears in black, the projection TV is set to a video input and you cannot select CABLE. Press TV on the remote commander so that a channel number appears.

Presetting channels

You can preset TV channels easily by AUTO PROGRAM feature. You do not have to do this procedure if you execute AUTO SET UP (page 11). Do this procedure only when you want to set it manually.

1 Press MENU.

2 Press + Δ or - Δ to move the cursor (►) to SET UP and press RETURN.

3 Press + Δ or - Δ to move the cursor (►) to LANGUAGE and press RETURN.



4 Press + Δ or - Δ to select the language and press RETURN.
The menu in selected language appears.

5 Press MENU to return to the original screen.

Note
"AUTO PROGRAM" appears on the screen and the projection TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the lowest numbered channel is displayed.

4 Press MENU to return to the original screen.

Note
• If AUTO PROGRAM appears in black in the SET UP menu, the projection TV is set to a video input and you cannot select AUTO PROGRAM. Press TV/VIDEO or TV on the remote commander so that a channel number appears.

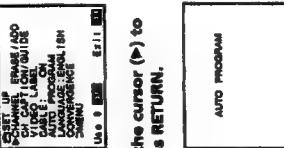
Changing the menu language

If you prefer Spanish or French to English, you can change the menu language. You do not have to do this procedure if you execute AUTO SET UP (page 11). Do this procedure only when you want to set it manually.

1 Press MENU.

2 Press + Δ or - Δ to move the cursor (►) to SET UP and press RETURN.

3 Press + Δ or - Δ to move the cursor (►) to AUTO PROGRAM and press RETURN.



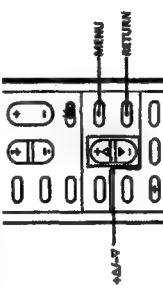
4 Press + Δ or - Δ to select ON and press RETURN.

5 Press MENU to return to the original screen.

Note
• Even when you select Spanish or French language, certain parts of the menus remain in English.

Listening to surround sound (SURROUND)

The SURROUND feature simulates sound reproduction with the atmosphere of a movie theater or a concert hall. Surround sound is only effective for stereo programs.



1 Press MENU.

2 Press + Δ or - Δ to select AUDIO and press RETURN.

3 Press + Δ or - Δ to select SURROUND and press RETURN.



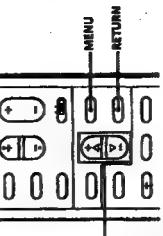
4 Press + Δ or - Δ to select MAIN, SAP or MONO and press RETURN.



Note
• Stereo and SAP sounds are subject to program sources.
• Listen to bilingual programs.
The sound of non-SAP programs will be muted when SAP is selected.
MONO Reduce noise during stereo broadcasts.

Selecting stereo or bilingual programs (MTS)

The Multichannel TV Sound (MTS) feature gives you the choice to enjoy stereo sound or Second Audio Programs (SAP) when available. The initial setting is stereo sound (MAIN).



1 Press MENU.

2 Press + Δ or - Δ to select AUDIO and press RETURN.

3 Press + Δ or - Δ to select MTS and press RETURN.



4 Press + Δ or - Δ to select MAIN, SAP or



Note
• Listen to stereo sound.
The STEREO indicator on the projection TV lights up while a stereo broadcast is received.
SAP Listen to bilingual programs.
The sound of non-SAP programs will be muted when SAP is selected.
MONO Reduce noise during stereo broadcasts.

Setting daylight saving time (DAYLIGHT SAVING)

If your area uses daylight saving time, change DAYLIGHT SAVING setting depending on the season, before setting the current time.

- After the first Sunday in April, set DAYLIGHT SAVING to YES. Current time (page 26), On/off Timer (page 27) and Channel Block (page 28) settings automatically move one hour ahead.
- After the last Sunday in October, set DAYLIGHT SAVING to NO. Current time, On/off Timer and Channel Block settings automatically move one hour back.

Daylight saving end

- Press + or - to select YES or NO and press RETURN.

3 Press + or - to select DAYLIGHT SAVING and press RETURN.



4 Press + or - to select YES or NO and press RETURN.

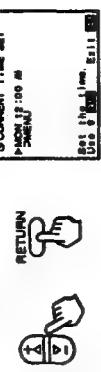


- 4 Set the current time.

(1) Press RETURN to start setting the time.

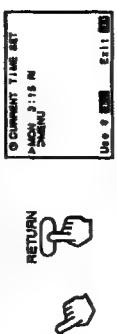


(2) Press + or - to set the day and press RETURN.



(3) Using + or - and RETURN, set hour and minute in the same way as in step (2).

When you press RETURN after setting the minute, the clock starts.



If you make a mistake while setting the time
Press RESET while the CURRENT TIME SET menu is displayed, then repeat step 4.

To display the current time
Press DISPLAY.

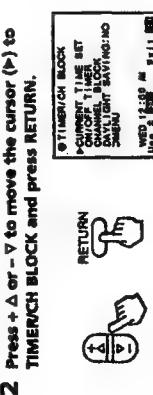
Note
• If you unplug the projection TV or a power interruption occurs, the clock will be erased. Reset the current time.

- 3 Make sure the cursor (>) is beside CURRENT TIME SET, and press RETURN.

If the cursor is not beside CURRENT TIME SET, press + or - to move the cursor and press RETURN.

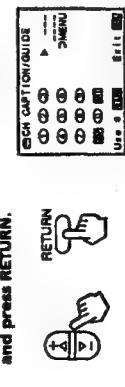
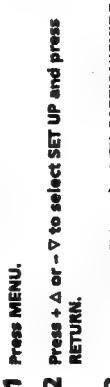
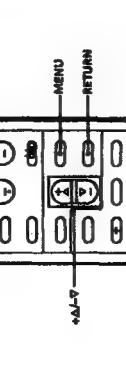
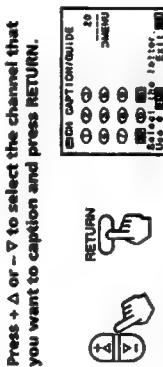
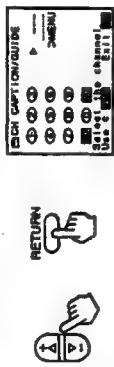


- 1 Press MENU.
2 Press + or - to move the cursor (>) to
TIME BLOCK and press RETURN.



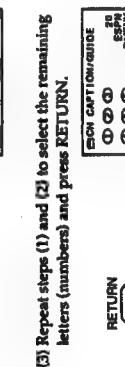
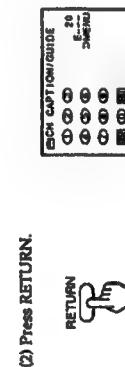
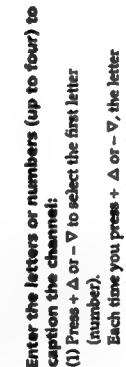
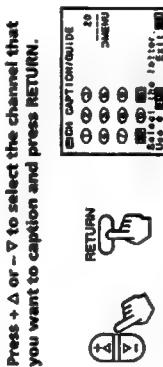
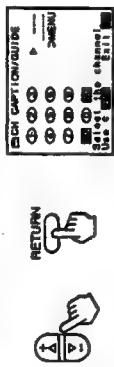
Customizing the channel number buttons (CH CAPTION/GUIDE)

You can choose up to 12 channels, caption each channel, and assign a specific channel number button to each channel. This feature allows you to select your favorite channels easily by name. For example, you can name channel 20 "ESPN," and assign the channel number 4 button to it.



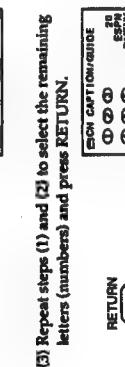
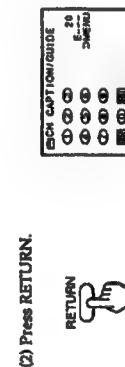
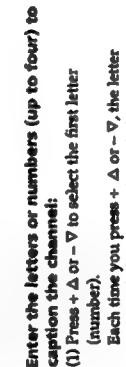
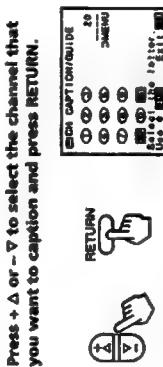
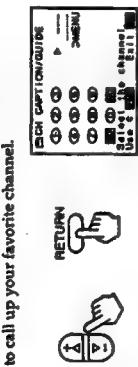
5 Press + Δ or - Δ to select a channel guide number button and press RETURN.

Each time you press + Δ or - Δ, the channel positions change to red in turns. The channel number button you select will be the one you press to call up your favorite channel.



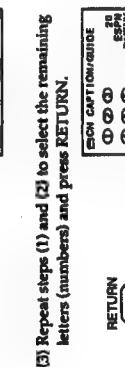
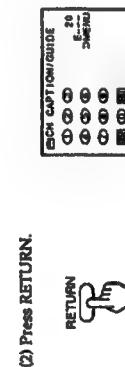
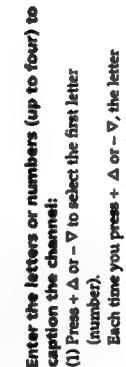
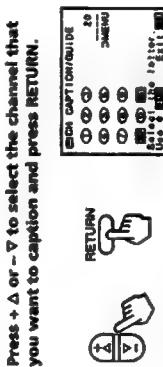
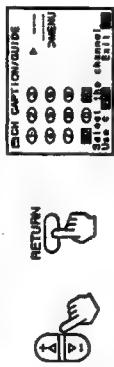
6 Press + Δ or - Δ to select the channel that you want to caption and press RETURN.

To erase a caption
Press RESET after step 4.



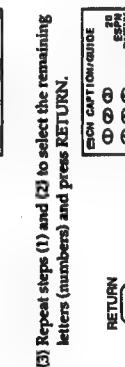
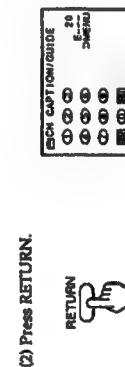
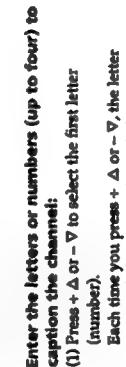
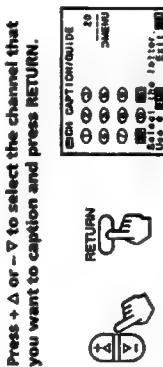
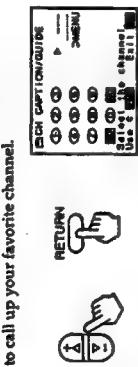
7 Enter the letters or numbers (up to four) to caption the channel:

(1) Press + Δ or - Δ to select the first letter (number).
Each time you press + Δ or - Δ, the letter (number) changes as shown below.
0—1—→—2—A—→—B—→—C—→—D—→—E—→—F—→—G—→—H—→—I—→—J—→—K—→—L—→—M—→—N—→—O—→—P—→—Q—→—R—→—S—→—T—→—U—→—V—→—W—→—X—→—Y—→—Z—→—(blank space)



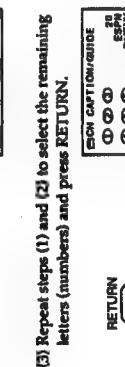
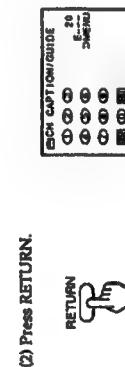
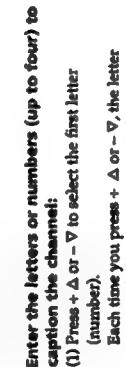
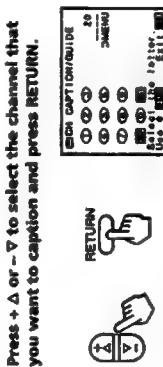
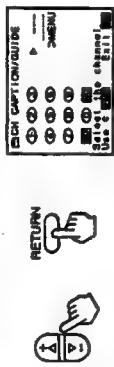
8 Repeat steps 4 to 7 to caption other channels.

To erase a caption
Press RESET after step 4.



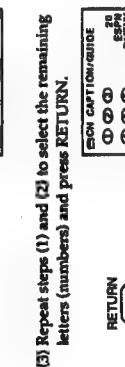
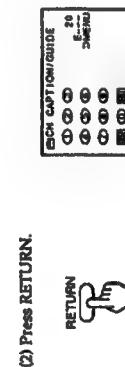
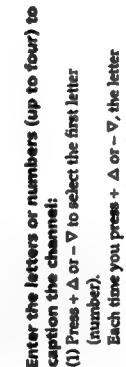
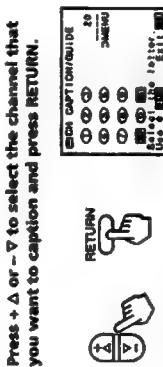
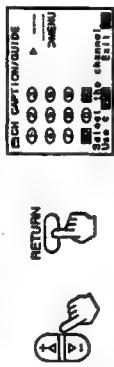
9 Press MENU.

The CHANNEL GUIDE menu appears showing channel captions and the corresponding channel number buttons.



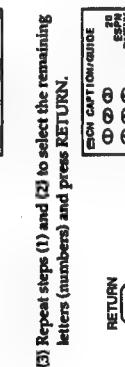
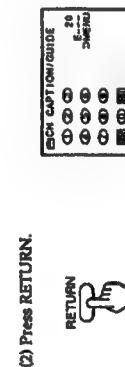
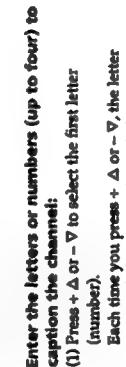
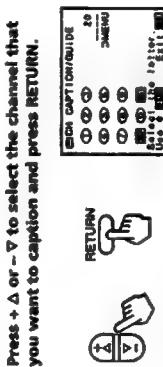
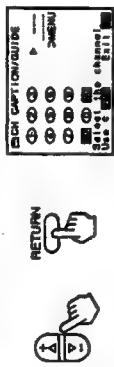
10 Press + Δ or - Δ to select SET UP and press RETURN.

To cancel the CHANNEL GUIDE menu
Press CH GUIDE again.



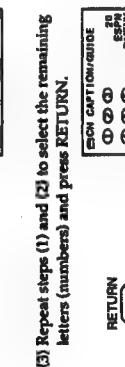
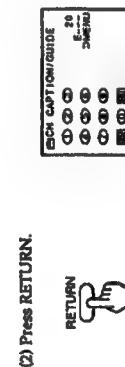
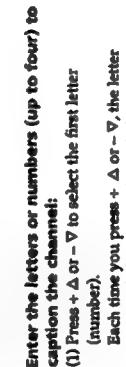
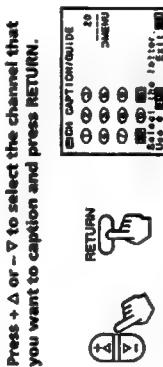
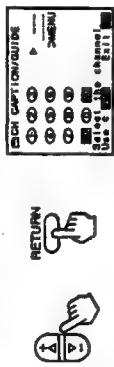
11 Press MENU.

The CHANNEL GUIDE menu appears showing channel captions and the corresponding channel number buttons.



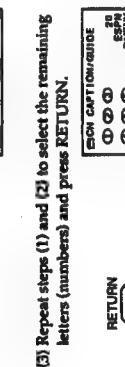
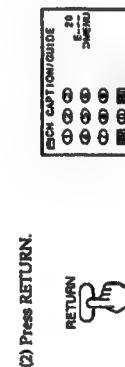
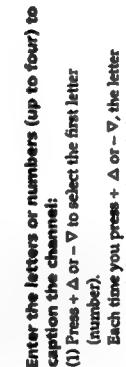
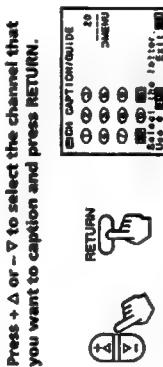
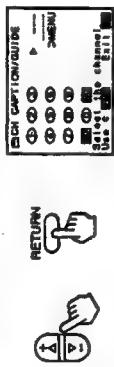
12 Press + Δ or - Δ to select CH CAPTION/GUIDE and press RETURN.

To cancel the CHANNEL GUIDE menu
Press CH GUIDE again.



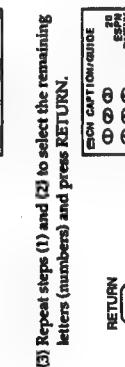
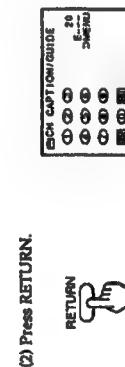
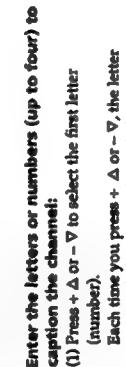
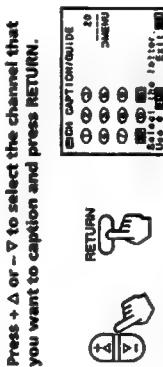
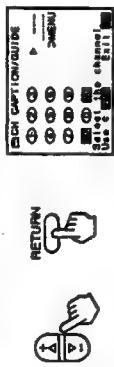
13 Press + Δ or - Δ to select the remaining letters (numbers) and press RETURN.

To cancel the CHANNEL GUIDE menu
Press CH GUIDE again.



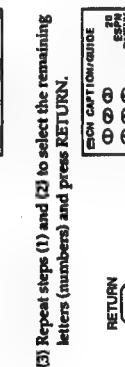
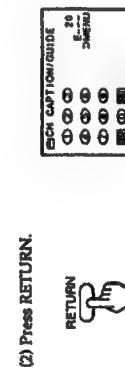
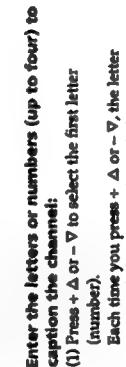
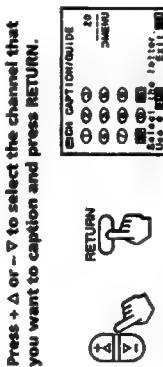
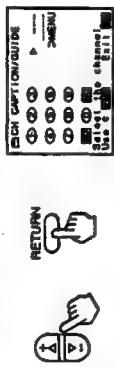
14 Press RETURN again.

To cancel the CHANNEL GUIDE menu
Press CH GUIDE again.



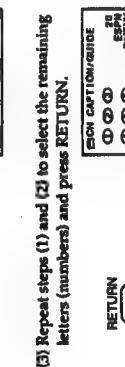
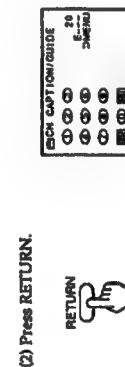
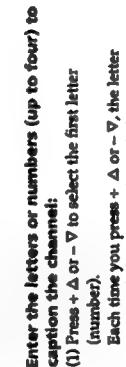
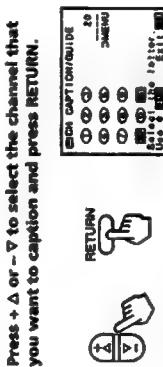
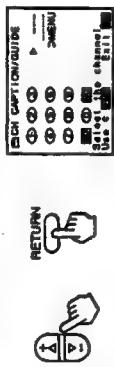
15 Press + Δ or - Δ to select the remaining letters (numbers) and press RETURN.

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Press CH GUIDE again.



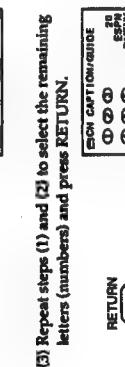
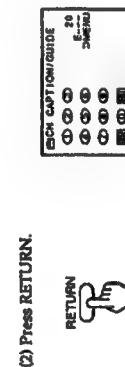
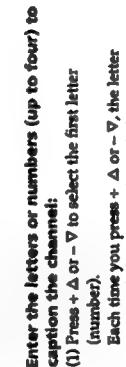
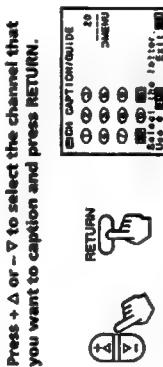
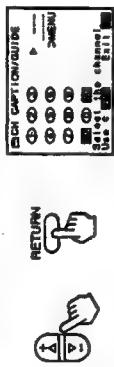
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To cancel the CHANNEL GUIDE menu
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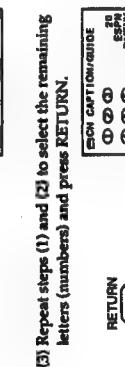
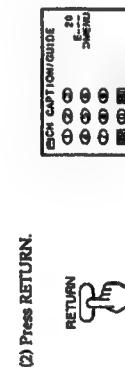
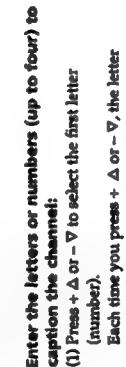
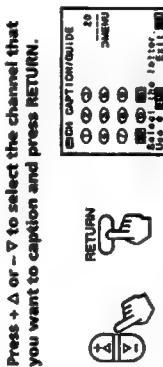
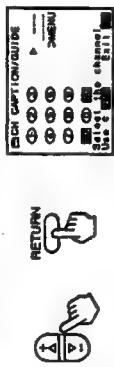
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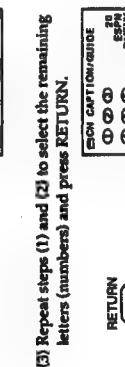
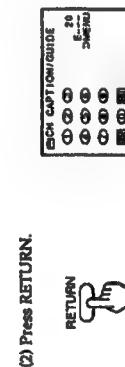
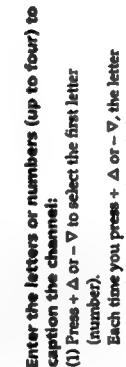
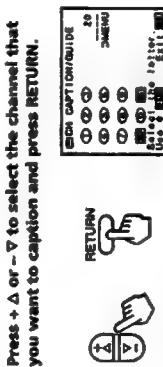
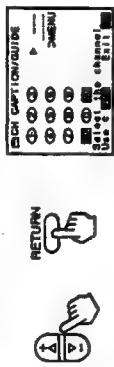
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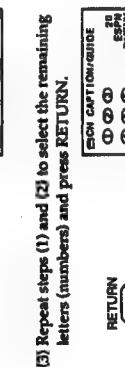
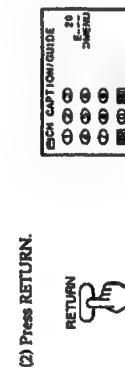
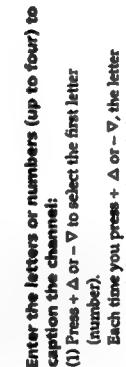
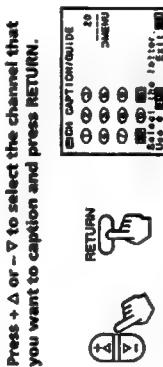
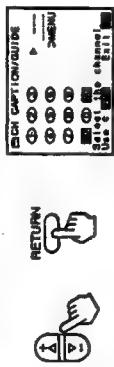
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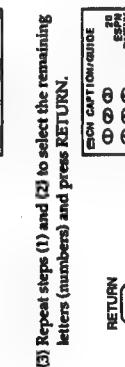
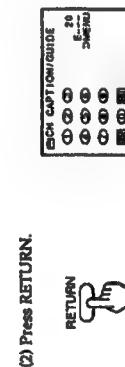
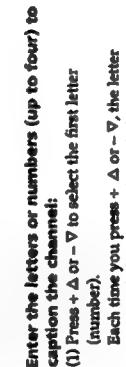
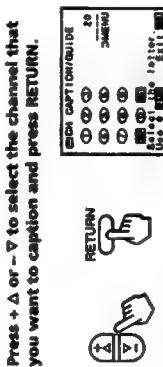
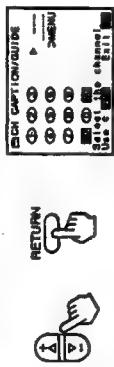
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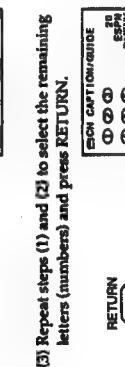
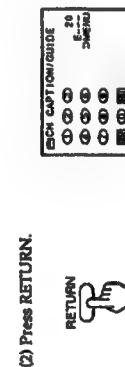
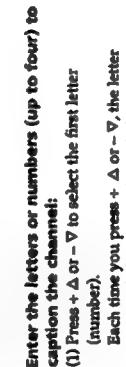
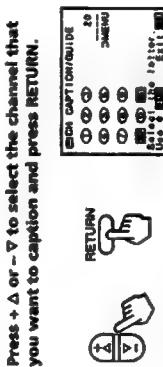
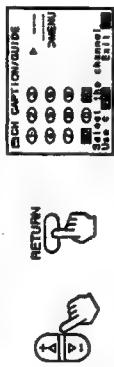
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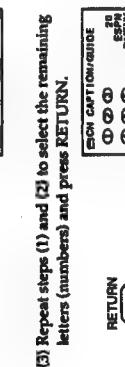
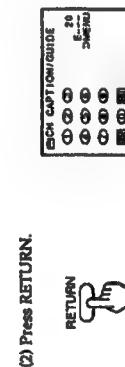
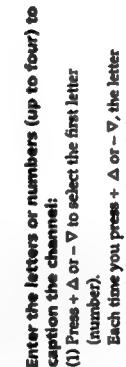
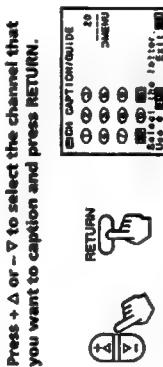
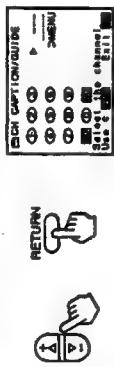
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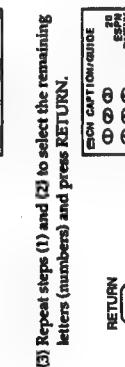
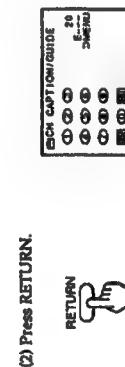
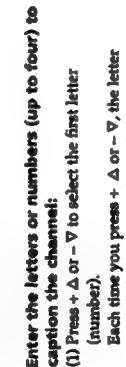
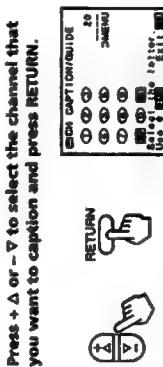
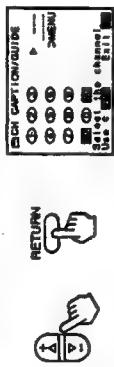
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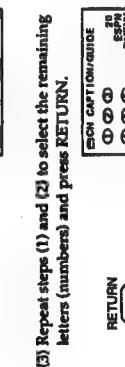
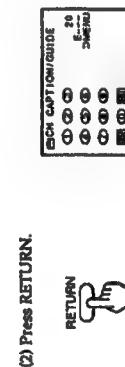
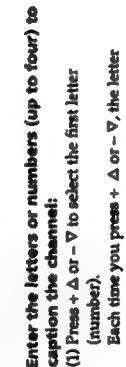
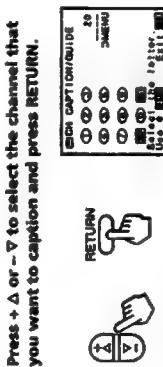
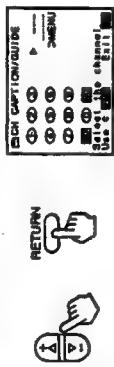
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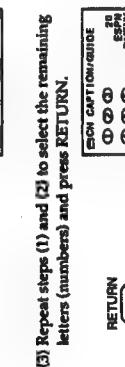
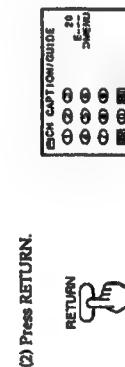
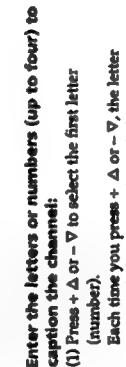
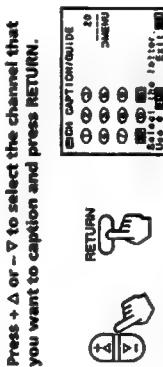
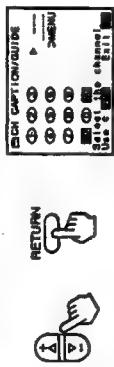
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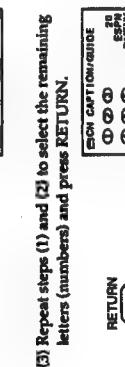
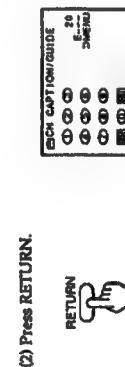
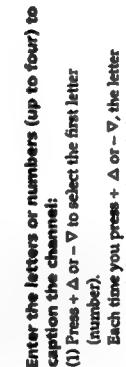
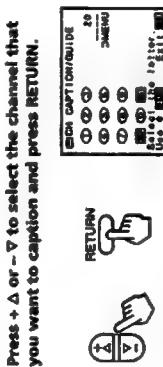
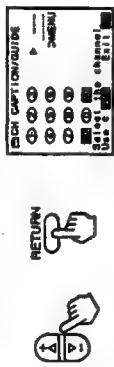
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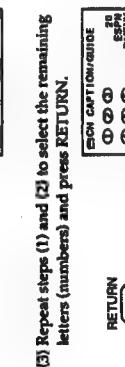
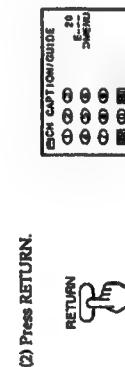
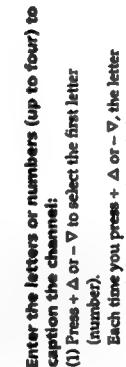
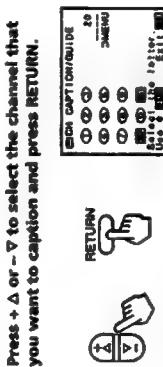
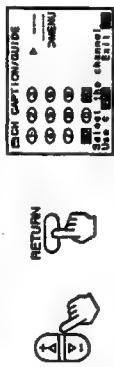
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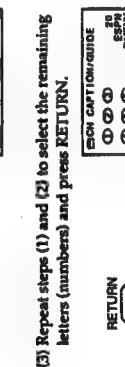
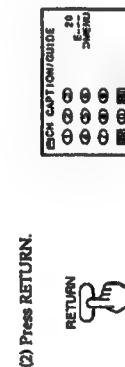
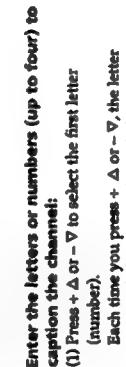
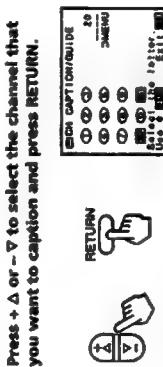
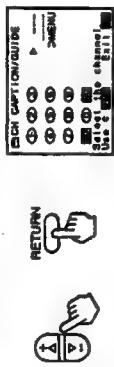
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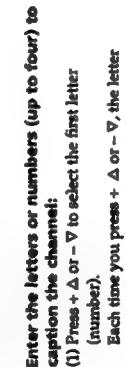
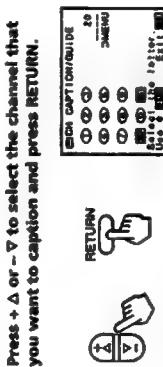
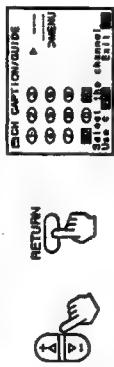
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Operating video equipment

To turn off the captions or text
Press DISPLAY on the remote commander.
Each time you press DISPLAY, the display changes as follows:

on-screen information → XDS → Caption Vision or Text

→ DISPLAY OFF

"DISPLAY OFF" goes off after three seconds.

You can operate a piece of video equipment that has an infrared remote sensor with the DISPLAY button. This information will be displayed on the screen if the broadcaster offers this service.

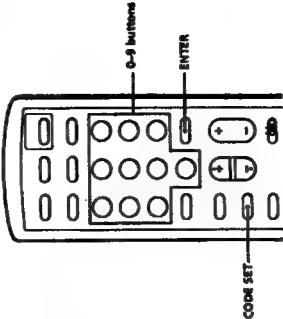
Note

• Some programs are broadcast with XDS service which shows a network name, program name, program length, call letters and time in show data. When you select XDS with the DISPLAY button, this information will be displayed on the screen if the broadcaster offers this service.

Note

• Options may appear with a white box or another error instead of a certain word. Poor reception of TV programs can also cause errors in Closed Caption.

Setting the manufacturer's code



While pressing CODE SET, press 0 - 9 to enter the manufacturer's code number (see the chart in the right column) and press ENTER. For example, to operate a Sony 8 mm VCR, press 2 and ENTER.



Displaying Caption Vision (Caption Vision/XDS)

5 Press + Δ or - Δ to select the label and press RETURN.



Each time you press + Δ or - Δ, the label changes as shown below.

VIDEO 1
VIDEO 1 → S-VIDEO → BETA → 8mm → VHS → LD → DSS

VIDEO 2
VIDEO 2 → BETA → 8mm → VHS → LD → DSS

VIDEO 3
VIDEO 3 → BETA → 8mm → VHS → LD → DSS

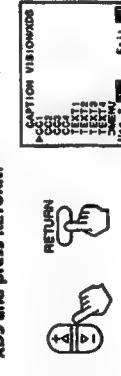
6 Repeat steps 4 and 5 to label other input modes.

Note
• If more than 90 seconds elapse after you press a button, the menu disappears automatically.

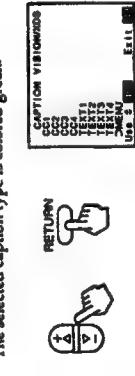
Some programs are broadcast with Caption Vision. To display Caption Vision, select either CCI, CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3 or TEXT4 from the menu. CCI, CC2, CC3 or CC4 shows you a caption, that is a printed version of the dialog or sound effects of a program. (The mode should be set to CCI for most programs.) TEXT1, TEXT2, TEXT3 or TEXT4 shows you text, that is information presented using either half or the whole screen. It is not usually related to the program.

1 Press MENU.

2 Press + Δ or - Δ to select CAPTION VISION XDS and press RETURN.

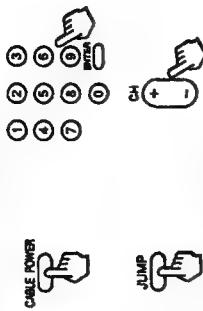


3 Press + Δ or - Δ to select the caption type and press RETURN. The selected caption type is colored green.



(continued)

3 Use CABLE POWER and the projection TV control buttons (0 - 9, ENTER, JUMP and CH +/-) to operate the cable box.



To operate the projection TV
Set the CABLE BOX/TV selector to TV. Then use the projection TV control buttons to control the projection TV.

For more details on operating the cable box
Refer to the operating instructions that come with the cable box.

Manufacturers and code numbers (cable box)	Manufacturer	Code number
SCIENTIFIC ATLANTA	JERROLD	60, 61, 62, 63, 64, 65, 73
TOCOM	PIONEER	69, 70
ZENTH	SCIENTIFIC ATLANTA	66, 67
	TOCOM	71, 72
	ZENTH	68

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
 - If some rare cases, you may not be able to operate your non-Sony video equipment with this remote commander. This is because your equipment may use a code that is not provided with this remote commander. In this case, please use the equipment's own remote control unit.
 - The code numbers for Sony equipment are assigned at the factory as follows:
- | | |
|---------------------|--|
| Beta, S/D Beta VCRs | 01 |
| 8 mm VCR | 02 |
| VHS VCR | 03 (preset code for this remote commander) |
| MDP | 04 |
- If you enter a new code number, the code number you previously entered at that setting is erased.
 - In some rare cases, your equipment may use a code that is not provided with this remote commander and you may not be able to operate your cable box with the supplied remote commander. In this case, use the equipment's own remote control unit.
 - When you remove a battery from the remote commander, the code may be erased. Reset the code each time you replace the battery, if necessary.

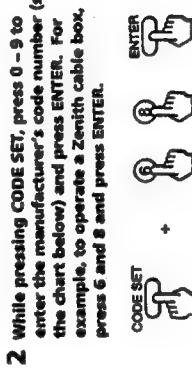
Operating a cable box

You can operate a connected cable box with the supplied remote commander. Before operating, set the manufacturer's code number.

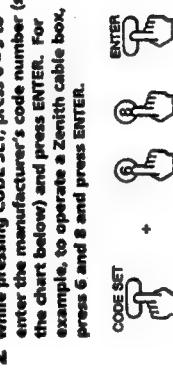


Notes

- 1 Set the CABLE BOX/TV selector to CABLE BOX.



2 While pressing CODE SET, press 0 - 9 to enter the manufacturer's code number (see the chart below) and press ENTER. For example, to operate a Zenith cable box, press 6 and 8 and press ENTER.



- Note**
- If the video equipment does not have a certain function, the corresponding button on this remote commander will not operate.

Operating video equipment	
Buttons on the remote commander	CABLE POWER
To turn on or off	Press VIDEO POWER
To change channels	Press CH +/-
To record	Press ● and RBC simultaneously
To play	Press ▶
To stop	Press ■
To fast forward	Press ▶▶
To rewind the tape	Press ▶◀
To pause	Press II
To search the picture forward and backward	Press ▶ or ▶▶ during playback
Buttons on the remote commander	CABLE POWER
To play	Press ▶
To stop	Press ■
To pause	Press II
To search the picture forward and backward	Keep pressing ▶ or ▶▶ during playback
Buttons on the remote commander	CABLE POWER
To play	Press ▶
To stop	Press ■
To pause	Press II
To search the picture forward and backward	Release the button.

Manufacturer code numbers

Manufacturer	Code number
SONY	01, 02, 03, 04
CANON	05
EMERSON	22, 30, 33
FISHER	10, 11, 12, 15
FUJII	29
GENERAL ELECTRIC	06, 08
GOLDSTAR	07, 08, 36
HITACHI	16, 35
JVC	05, 06, 09
MAGNAVOX	18, 19, 26, 27
MITSUBISHI	29
MULTITECH	07, 08
NEC	16, 17, 31
PANASONIC	05, 06
PHILCO	05, 06
PHILIPS	05, 06
QUASAR	07, 08
RCA	24, 32
SAMSUNG	11, 15
SANTO	21
SCOTT	13, 14
SHARP	34
SHUNUTOM	05, 06, 09
STYLVANIA	29
SYNTAPHONIC	28, 29
TEKNIKA	20, 21
TOSHIBA	25
TOTE VISION	17
ZENITH	

Notes

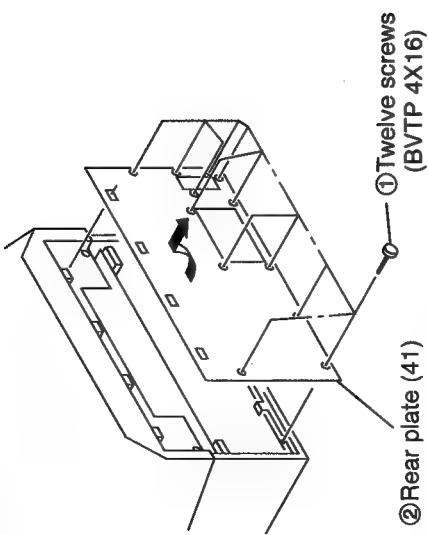
- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- In some rare cases, you may not be able to operate your non-Sony video equipment with this remote commander. This is because your equipment may use a code that is not provided with this remote commander. In this case, please use the equipment's own remote control unit.
- The code numbers for Sony equipment are assigned at the factory as follows:

Beta, S/D Beta VCRs	01
8 mm VCR	02
VHS VCR	03 (preset code for this remote commander)
MDP	04
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, your equipment may use a code that is not provided with this remote commander and you may not be able to operate your cable box with the supplied remote commander. In this case, use the equipment's own remote control unit.
- When you remove a battery from the remote commander, the code may be erased. Reset the code each time you replace the battery, if necessary.

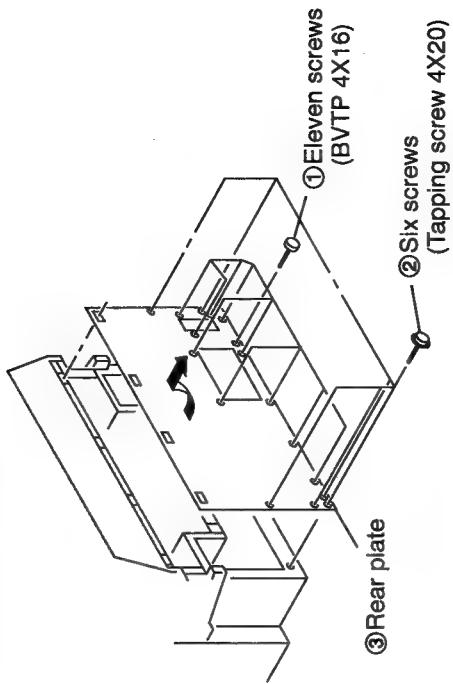
- Caution**
- When you remove a battery from the remote commander, the code may revert to 0. Reset the codes each time you replace the battery, if necessary.

SECTION 2 DISASSEMBLY

2-1-1. REAR PLATE REMOVAL (KP-41T15)

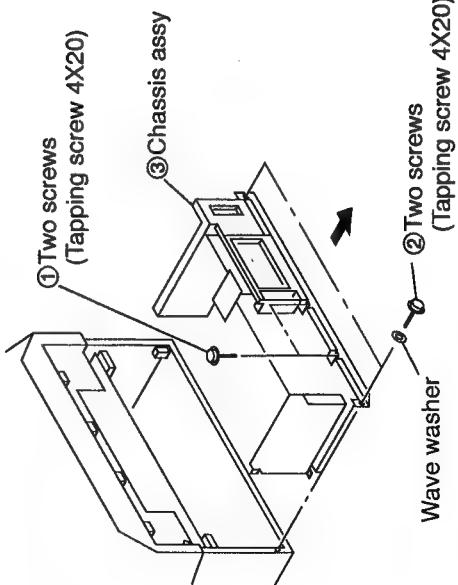


2-1-2. REAR PLATE REMOVAL (KP-46S15/53S15)



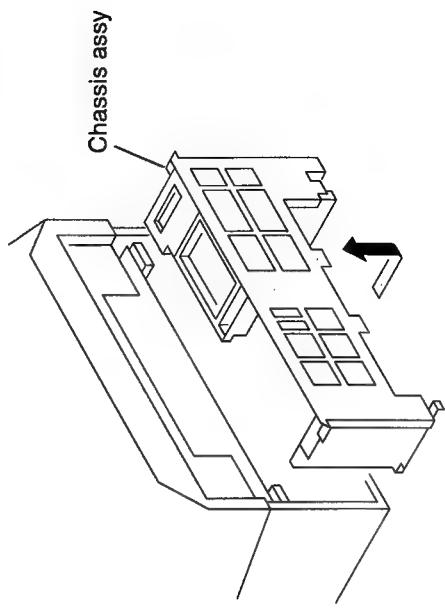
2-2. CHASSIS ASSY REMOVAL

2-3. SERVICE POSITION • Remove the chassis assy (Refer to 2-2.)



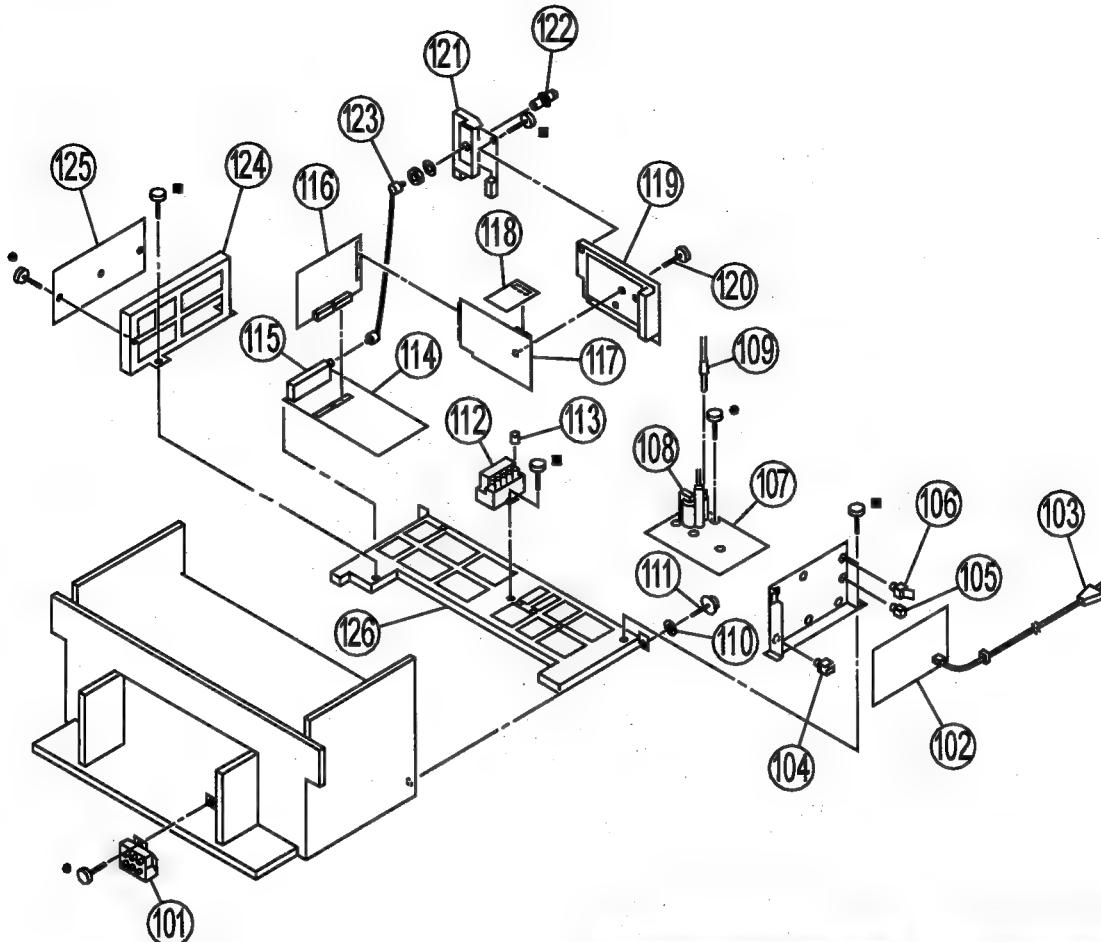
2-3. SERVICE POSITION

• Remove the chassis assy (Refer to 2-2.)



5-3. CHASSIS

● : 7-685-648-79 + BVTP 3x12
 ■ : 7-685-663-79 + BVTP 4x16



The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

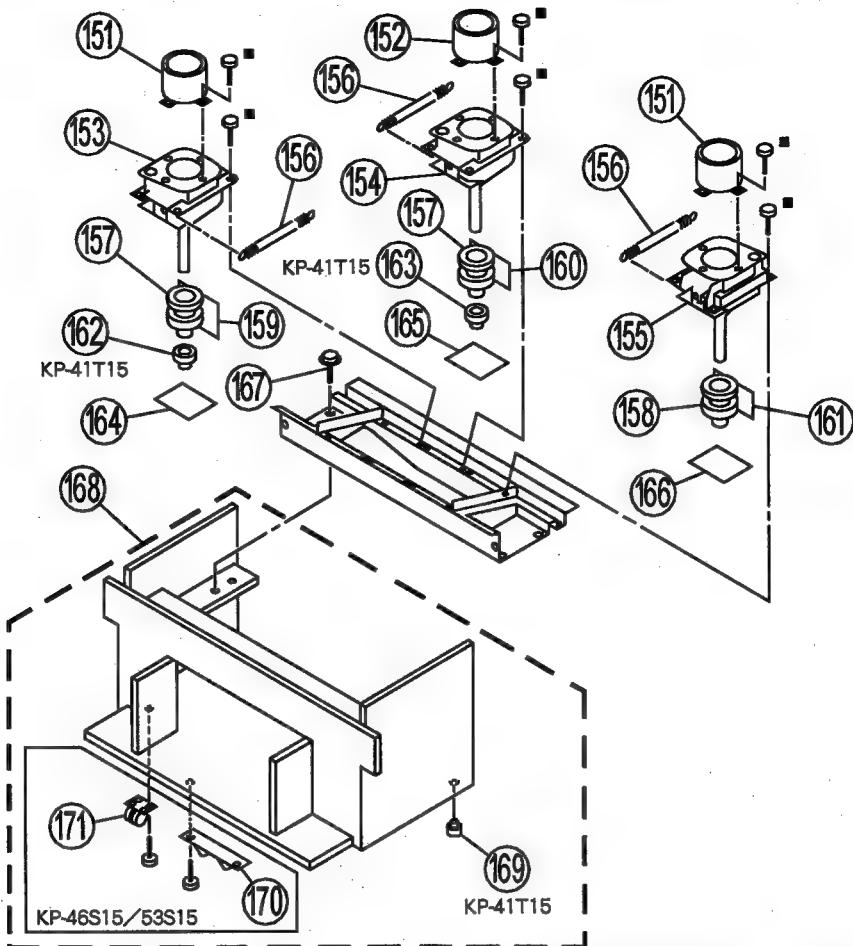
Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	Δ 223-925-11	RESISTOR ASSY (HIGH VOLTAGE)		116	*A-1306-493-A	M BOARD, COMPLETE (KP-41T15)	
102	*A-1316-212-A	G BOARD, COMPLETE		117	*A-1306-498-A	M BOARD, COMPLETE (KP-46S15/53S15)	
103	Δ 1-769-837-11	CORD, POWERLINE/NOISE FILTER		118	*A-1195-062-A	P BOARD, COMPLETE	
104	*3-659-682-11	HOLDER, PC BOARD		119	4-047-951-01	TERMINAL BOARD (A)	
105	*4-382-848-01	HOLDER, PCB		120	4-041-165-01	SCREW (3X12), TAPPING, +BV	
106	*3-703-141-00	HOLDER, PCB		121	4-047-952-01	TERMINAL BOARD (B)	
107	*A-1341-885-A	E BOARD, COMPLETE		122	1-561-306-00	JACK, PIN (P)	
108	Δ 1-598-939-00	TRANSFORMER ASSY, FLYBACK (MX-2631/R45)		123	1-556-945-21	CABLE, P-P	
109	Δ 1-900-211-34	LEAD ASSY, HV		124	*4-047-950-01	BRACKET, D PC BOARD	
110	4-042-667-01	WASHER, WAVE		125	*A-1346-296-A	D BOARD, COMPLETE	
111	4-041-164-11	SCREW (4X20), TAPPING		126	*4-047-949-01	BRACKET, MAIN PC BOARD	
112	Δ 1-598-955-00	BLOCK ASSY, HIGH VOLTAGE					
113	4-373-137-01	CAP (Z), RUBBER					
114	*A-1297-476-A	A BOARD, COMPLETE					
115	Δ 1-598-254-00	TUNER BTF WA402					

5-4. PICTURE TUBE

■ : 7-685-663-79

+ BVTP 4x16



The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
151	4-034-057-01	LENS (LINNIT)		162	Δ -1-452-790-21	NECK ASSY (KP-41T15)	
152	4-034-057-11	LENS (LINNIT)		163	Δ -1-452-790-11	NECK ASSY (KP-41T15)	
153	Δ -8-736-080-05	PICTURE TUBE 07MAB5(R) (KP-41T15/46S15)		164	*A-1331-408-A	CR BOARD, COMPLETE	
	Δ -8-736-082-05	PICTURE TUBE 07MAB6(R) (KP-53S15)		165	*A-1331-409-A	CG BOARD, COMPLETE	
154	Δ -8-736-078-05	PICTURE TUBE 07MAB5(G)		166	*A-1331-410-A	CB BOARD, COMPLETE	
155	Δ -8-736-079-05	PICTURE TUBE 07MAB5(B) (KP-41T15/46S15)		167	4-041-164-11	SCREW (4X20), TAPPING	
	Δ -8-736-101-05	PICTURE TUBE 07MAB6(B) (KP-53S15)		168	*X-4032-547-1	CABINET ASSY, BOTTOM (KP-41T15)	169
156	4-048-142-01	SPRING, TENSION			*X-4032-615-1	CABINET ASSY, BOTTOM (KP-46S15)	120, 121
157	Δ -8-451-463-11	DY Y829PA2N (R), (G)			*X-4032-616-1	CABINET ASSY, BOTTOM (KP-53T15)	120, 121
158	Δ -8-451-463-21	DY Y829PA2N2 (B)		169	4-047-987-01	FOOT (KP-41T15)	
159	*A-1390-487-A	ZR BOARD, COMPLETE (KP-41T15)		170	4-048-175-01	FOOT, PLASTIC (KP46S15/53S15)	
	*A-1390-513-A	ZR BOARD, COMPLETE (KP-46S15/53S15)		171	4-040-755-01	CASTER (DIA.30) (KP46S15/53S15)	
160	*A-1390-489-A	ZG BOARD, COMPLETE (KP-41T15)					
	*A-1390-512-A	ZG BOARD, COMPLETE (KP-46S15/53S15)					
161	*A-1390-491-A	ZB BOARD, COMPLETE					

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SECTION 6 ELECTRICAL PARTS LIST

NOTE :

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

- MF: μF , PF: $\mu \mu F$
- MMH: mH, UH: μH

- The components identified by \blacksquare in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
Should replacement be required, replace only with the value originally used.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
*A-1195-062-A	P BOARD, COMPLETE			C3249	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
	*****			C3250	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C3201	1-104-664-11	ELECT 47MF	20%	C3251	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3203	1-164-004-11	CERAMIC CHIP 0.1MF	10%	C3252	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C3204	1-126-964-11	ELECT 10MF	20%	C3253	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C3205	1-126-964-11	ELECT 10MF	20%	C3254	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C3206	1-126-964-11	ELECT 10MF	20%	C3255	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C3207	1-163-117-00	CERAMIC CHIP 100PF	5%	C3256	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3208	1-163-117-00	CERAMIC CHIP 100PF	5%	C3257	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C3209	1-126-962-11	ELECT 3.3MF	20%	C3258	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C3210	1-104-664-11	ELECT 47MF	20%	C3259	1-163-111-00	CERAMIC CHIP 56PF	5% 50V
C3212	1-126-962-11	ELECT 3.3MF	20%	C3260	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
C3223	1-164-346-11	CERAMIC CHIP 1MF		C3261	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C3214	1-164-346-11	CERAMIC CHIP 1MF		C3263	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C3215	1-164-346-11	CERAMIC CHIP 1MF		C3264	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C3216	1-164-005-11	CERAMIC CHIP 0.47MF		C3265	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C3217	1-164-346-11	CERAMIC CHIP 1MF		C3266	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C3218	1-164-346-11	CERAMIC CHIP 1MF		C3267	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C3219	1-126-941-11	ELECT 470MF	20%	C3268	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C3220	1-164-346-11	CERAMIC CHIP 1MF		C3269	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C3221	1-164-346-11	CERAMIC CHIP 1MF		C3270	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C3222	1-164-336-11	CERAMIC CHIP 0.33MF		C3271	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C3223	1-164-336-11	CERAMIC CHIP 0.33MF		C3272	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C3224	1-164-222-11	CERAMIC CHIP 0.22MF		C3273	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C3225	1-164-222-11	CERAMIC CHIP 0.22MF		C3274	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C3226	1-164-005-11	CERAMIC CHIP 0.47MF		C3275	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C3227	1-164-346-11	CERAMIC CHIP 1MF		C3276	1-163-111-00	CERAMIC CHIP 56PF	5% 50V
C3228	1-163-117-00	CERAMIC CHIP 100PF	5%	C3277	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C3229	1-163-093-00	CERAMIC CHIP 10PF	5%	C3278	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C3230	1-163-141-00	CERAMIC CHIP 0.001MF	5%	C3279	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C3231	1-163-125-00	CERAMIC CHIP 220PF	5%	C3280	1-126-964-11	ELECT 10MF	20% 50V
C3232	1-163-117-00	CERAMIC CHIP 100PF	5%	C3282	1-164-346-11	CERAMIC CHIP 1MF	16V
C3233	1-164-232-11	CERAMIC CHIP 0.01MF	10%	CN150	1-573-297-21	CONNECTOR, BOARD TO BOARD 18P	
C3234	1-164-232-11	CERAMIC CHIP 0.01MF	10%				
C3235	1-164-232-11	CERAMIC CHIP 0.01MF	10%				
C3236	1-164-232-11	CERAMIC CHIP 0.01MF	10%				
C3237	1-164-232-11	CERAMIC CHIP 0.01MF	10%				
C3238	1-163-101-00	CERAMIC CHIP 22PF	5%	D3202	8-719-031-68	DIODE HVU359TRF	
C3239	1-163-141-00	CERAMIC CHIP 0.001MF	5%	D3203	8-719-404-46	DIODE MA110	
C3240	1-163-101-00	CERAMIC CHIP 22PF	5%	D3208	8-719-110-17	DIODE RD10SEB2	
C3241	1-163-103-00	CERAMIC CHIP 27PF	5%	D3209	8-719-110-17	DIODE RD10SEB2	
C3242	1-164-232-11	CERAMIC CHIP 0.01MF	10%				
C3243	1-163-117-00	CERAMIC CHIP 100PF	5%				
C3244	1-163-113-00	CERAMIC CHIP 68PF	5%				
C3245	1-164-232-11	CERAMIC CHIP 0.01MF	10%	IC3200	8-759-288-13	IC MSM51C262-ZS	
C3246	1-164-232-11	CERAMIC CHIP 0.01MF	10%	IC3201	8-759-093-29	IC MB86144BPF-G-BND	
C3247	1-163-033-91	CERAMIC CHIP 0.022MF	50V	IC3202	8-759-093-28	IC MB40176PF-G-BND-BF	
C3248	1-163-125-00	CERAMIC CHIP 220PF	5%	IC3203	8-759-093-28	IC MB40176PF-G-BND-BF	
				IC3204	8-759-093-25	IC MB3512PPQ	

<IC>

P A

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
IC3205	8-759-243-19	IC TC7SU04F		R3238	1-216-049-00	METAL GLAZE	1K 5% 1/10W
		<COIL>		R3239	1-216-043-91	METAL GLAZE	560 5% 1/10W
L3201	1-410-470-11	INDUCTOR	10UH	R3241	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
L3202	1-408-424-00	INDUCTOR	180UH	R3242	1-216-049-00	METAL GLAZE	1K 5% 1/10W
L3203	1-408-424-00	INDUCTOR	180UH	R3243	1-216-025-00	METAL GLAZE	100 5% 1/10W
L3204	1-410-476-11	INDUCTOR	33UH	R3244	1-216-025-00	METAL GLAZE	100 5% 1/10W
L3205	1-410-470-11	INDUCTOR	10UH	R3245	1-216-025-00	METAL GLAZE	100 5% 1/10W
L3206	1-410-387-11	INDUCTOR	33UH	R3246	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
L3207	1-410-387-11	INDUCTOR	33UH	R3247	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
L3208	1-410-387-11	INDUCTOR	33UH	R3248	1-216-295-00	CONDUCTOR, CHIP	
L3209	1-410-387-11	INDUCTOR	33UH	R3249	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
		<TRANSISTOR>		R3250	1-216-043-91	METAL GLAZE	560 5% 1/10W
Q3201	8-729-216-22	TRANSISTOR 2SA1162-G		R3251	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q3202	8-729-422-27	TRANSISTOR 2SD601A-Q		R3252	1-216-043-91	METAL GLAZE	560 5% 1/10W
Q3203	8-729-216-22	TRANSISTOR 2SA1162-G		R3253	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
Q3204	8-729-216-22	TRANSISTOR 2SA1162-G		R3254	1-216-043-91	METAL GLAZE	560 5% 1/10W
Q3206	8-729-422-27	TRANSISTOR 2SD601A-Q		R3255	1-216-041-00	METAL GLAZE	470 5% 1/10W
		<RESISTOR>		R3256	1-216-043-91	METAL GLAZE	560 5% 1/10W
Q3207	8-729-216-22	TRANSISTOR 2SA1162-G		R3259	1-216-298-00	METAL GLAZE	2.2 5% 1/10W
Q3208	8-729-422-27	TRANSISTOR 2SD601A-Q		R3260	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q3209	8-729-216-22	TRANSISTOR 2SA1162-G		R3263	1-216-025-00	METAL GLAZE	100 5% 1/10W
Q3210	8-729-216-22	TRANSISTOR 2SA1162-G		R3264	1-216-025-00	METAL GLAZE	100 5% 1/10W
		<CRYSTAL>		R3265	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R3201	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R3266	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R3202	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R3267	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R3203	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3268	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R3204	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3269	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R3205	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R3270	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W
R3207	1-216-295-00	CONDUCTOR, CHIP		R3271	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W
R3208	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R3273	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R3209	1-216-079-00	METAL GLAZE	18K 5% 1/10W	R3274	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R3210	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R3275	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R3211	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R3276	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R3212	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R3277	1-216-298-00	METAL GLAZE	2.2 5% 1/10W
R3213	1-216-075-00	METAL GLAZE	12K 5% 1/10W				
R3214	1-216-121-00	METAL GLAZE	1M 5% 1/10W	X3201	1-567-878-11	VIBRATOR, CRYSTAL	
R3215	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	X3202	1-567-878-11	VIBRATOR, CRYSTAL	
R3216	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	*****	*****	*****	*****
R3217	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W				
R3218	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R3219	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R3220	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R3221	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W				
R3222	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W				
R3223	1-216-025-00	METAL GLAZE	100 5% 1/10W	C201	1-104-665-11	ELECT	100MF 20% 25V
R3224	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C202	1-102-125-00	CERAMIC	0.0047MF 10% 50V
R3225	1-216-025-00	METAL GLAZE	100 5% 1/10W	C203	1-130-489-00	FILM	0.033MF 5% 50V
R3226	1-216-085-00	METAL GLAZE	33K 5% 1/10W	C204	1-124-902-00	ELECT	0.47MF 20% 50V
R3227	1-216-647-11	METAL CHIP	680 0.50% 1/10W	C205	1-104-665-11	ELECT	100MF 20% 25V
R3228	1-216-045-00	METAL GLAZE	680 5% 1/10W	C206	1-124-902-00	ELECT	0.47MF 20% 50V
R3229	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C207	1-124-903-11	ELECT	1MF 20% 50V
R3230	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C208	1-124-768-11	ELECT	4.7MF 20% 50V
R3231	1-216-001-00	METAL GLAZE	10 5% 1/10W	C209	1-124-903-11	ELECT	1MF 20% 50V
R3232	1-216-083-00	METAL GLAZE	27K 5% 1/10W	C210	1-102-125-00	CERAMIC	0.0047MF 10% 50V
R3233	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C211	1-130-489-00	FILM	0.033MF 5% 50V
R3234	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	C212	1-124-768-11	ELECT	4.7MF 20% 50V
R3235	1-216-043-91	METAL GLAZE	560 5% 1/10W	C220	1-126-964-11	ELECT	10MF 20% 50V
R3236	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C221	1-126-964-11	ELECT	10MF 20% 50V
R3237	1-216-043-91	METAL GLAZE	560 5% 1/10W	C222	1-126-964-11	ELECT	10MF 20% 50V

A

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifique.

A M

M

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
C016	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C323	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C017	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C324	1-128-551-11	ELECT 22MF	20% 50V
C018	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C327	1-163-139-00	CERAMIC CHIP 820PF	5% 50V
C019	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C328	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C020	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C329	1-163-001-11	CERAMIC CHIP 220PF	10% 50V
C021	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C338	1-124-927-11	ELECT 4.7MF	20% 50V
C022	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C339	1-124-464-11	ELECT 0.22MF	20% 50V
C023	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C340	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C024	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C341	1-124-902-00	ELECT 0.47MF	20% 50V
C025	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C342	1-124-902-00	ELECT 0.47MF	20% 50V
C026	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C343	1-124-902-00	ELECT 0.47MF	20% 50V
C028	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C344	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C029	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C345	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C030	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C346	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C031	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C347	1-124-902-00	ELECT 0.47MF	20% 50V
C032	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C348	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C033	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V	C349	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C034	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C350	1-126-964-11	ELECT 10MF	20% 50V
C035	1-124-903-11	ELECT 1MF	20%	50V				(KP-41T15)
C037	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V	C352	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C038	1-126-940-11	ELECT 330MF	20%	16V	C353	1-104-665-11	ELECT 100MF	20% 25V
C040	1-124-903-11	ELECT 1MF	20%	50V	C354	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C041	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C355	1-128-551-11	ELECT 22MF	20% 50V
C042	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C357	1-104-664-11	ELECT 47MF	20% 25V
C046	1-163-125-00	CERAMIC CHIP 220PF	5%	50V	C358	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C047	1-124-903-11	ELECT 1MF	20%	50V	C359	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C048	1-163-245-11	CERAMIC CHIP 56PF	5%	50V				(KP-41T15)
C049	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C360	1-126-964-11	ELECT 10MF	20% 50V
C050	1-163-031-11	CERAMIC CHIP 0.01MF	50V		C361	1-126-964-11	ELECT 10MF	20% 50V
C051	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	C362	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C054	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C363	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C055	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V	C364	1-126-964-11	ELECT 10MF	20% 50V
C056	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C365	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C057	1-163-159-00	CERAMIC CHIP 12PF	2%	50V	C366	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C058	1-104-896-11	CERAMIC CHIP 24PF	2%	50V	C368	1-163-093-00	CERAMIC CHIP 10PF	5% 50V
C060	1-124-903-11	ELECT 1MF	20%	50V	C369	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C062	1-163-038-00	CERAMIC CHIP 0.1MF	20%	25V	C370	1-104-665-11	ELECT 100MF	20% 25V
C063	1-126-964-11	ELECT 10MF	20%	50V	C371	1-104-665-11	ELECT 100MF	20% 25V
C064	1-126-964-11	ELECT 10MF	20%	50V				(KP-41T15)
C065	1-163-038-00	CERAMIC CHIP 0.1MF	20%	25V				(KP-41T15)
C066	1-163-135-00	CERAMIC CHIP 560PF	5%	50V				(KP-41T15)
C067	1-137-399-11	FILM 0.1MF	5%	50V				(KP-41T15)
C068	1-137-367-11	FILM 0.0033MF	5%	50V				(KP-41T15)
C069	1-137-375-11	FILM 0.068MF	5%	50V				(KP-41T15)
C070	1-104-664-11	ELECT 47MF	20%	25V				(KP-41T15)
C071	1-124-464-11	ELECT 0.22MF	20%	50V				(KP-41T15)
C074	1-126-940-11	ELECT 330MF	20%	16V				(KP-41T15)
C075	1-163-031-11	CERAMIC CHIP 0.01MF	50V					(KP-41T15)
C302	1-124-902-00	ELECT 0.47MF	20%	50V				(KP-41T15)
C303	1-124-902-00	ELECT 0.47MF	20%	50V				(KP-41T15)
<CONDUCTOR CHIP>								
C304	1-124-927-11	ELECT 4.7MF	20%	50V	CJ001	1-216-295-00	CONDUCTOR, CHIP	
C309	1-163-019-00	CERAMIC CHIP 0.0068MF	10%	50V	CJ002	1-216-295-00	CONDUCTOR, CHIP	
C310	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	CJ003	1-216-295-00	CONDUCTOR, CHIP	
C311	1-124-925-11	ELECT 2.2MF	20%	50V				
C312	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V				
<CONNECTOR>								
C313	1-104-664-11	ELECT 47MF	20%	25V	CN046	*1-564-512-11	PLUG, CONNECTOR 9P	
C314	1-163-031-11	CERAMIC CHIP 0.01MF	50V		CN053	*1-564-507-11	PLUG, CONNECTOR 4P	
C315	1-126-934-11	ELECT 220MF	20%	16V	CN054	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P	
C316	1-131-374-00	TANTALUM 33MF	10%	16V	CN304	*1-564-512-11	PLUG, CONNECTOR 9P	
C317	1-163-031-11	CERAMIC CHIP 0.01MF	50V	CN314	*1-564-509-11	PLUG, CONNECTOR 6P		
C318	1-124-925-11	ELECT 2.2MF	20%	50V				(KP-41T15)
C319	1-124-903-11	ELECT 1MF	20%	50V	CN321	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P	
C320	1-124-903-11	ELECT 1MF	20%	50V	CN322	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P	
C321	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V				



M

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK		
R018	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R086	1-216-097-00	METAL GLAZE	100K 5%	1/10W
R019	1-216-033-00	METAL GLAZE	220 5%	1/10W	R087	1-216-073-00	METAL GLAZE	10K 5%	1/10W
R020	1-216-033-00	METAL GLAZE	220 5%	1/10W	R088	1-216-089-00	METAL GLAZE	47K 5%	1/10W
R021	1-216-033-00	METAL GLAZE	220 5%	1/10W	R089	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W
R022	1-216-097-00	METAL GLAZE	100K 5%	1/10W	R090	1-216-073-00	METAL GLAZE	10K 5%	1/10W
R023	1-216-121-00	METAL GLAZE	1M 5%	1/10W	R101	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W
R024	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R102	1-216-089-00	METAL GLAZE	47K 5%	1/10W
R025	1-216-073-00	METAL GLAZE	10K 5%	1/10W	R103	1-216-045-00	METAL GLAZE	680 5%	1/10W
R026	1-216-073-00	METAL GLAZE	10K 5%	1/10W	R104	1-216-033-00	METAL GLAZE	220 5%	1/10W
R027	1-216-089-00	METAL GLAZE	47K 5%	1/10W	R106	1-216-033-00	METAL GLAZE	220 5%	1/10W
R028	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R107	1-216-033-00	METAL GLAZE	220 5%	1/10W
R029	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R108	1-216-033-00	METAL GLAZE	220 5%	1/10W
R031	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R109	1-216-033-00	METAL GLAZE	220 5%	1/10W
R032	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R110	1-216-033-00	METAL GLAZE	220 5%	1/10W
R033	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R111	1-216-049-00	METAL GLAZE	1K 5%	1/10W
R034	1-216-073-00	METAL GLAZE	10K 5%	1/10W	R112	1-216-089-00	METAL GLAZE	47K 5%	1/10W
R035	1-216-033-00	METAL GLAZE	220 5%	1/10W	R113	1-216-089-00	METAL GLAZE	47K 5%	1/10W
R036	1-216-025-00	METAL GLAZE	100 5%	1/10W	R114	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W
R037	1-216-033-00	METAL GLAZE	220 5%	1/10W	R115	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W
R038	1-216-033-00	METAL GLAZE	220 5%	1/10W	R116	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W
R039	1-216-025-00	METAL GLAZE	100 5%	1/10W	R117	1-216-047-00	METAL GLAZE	820 5%	1/10W
R040	1-216-033-00	METAL GLAZE	220 5%	1/10W	R118	1-216-047-00	METAL GLAZE	820 5%	1/10W
R041	1-216-033-00	METAL GLAZE	220 5%	1/10W	R119	1-216-047-00	METAL GLAZE	820 5%	1/10W
R042	1-216-033-00	METAL GLAZE	220 5%	1/10W	R120	1-216-033-00	METAL GLAZE	220 5%	1/10W
R043	1-216-073-00	METAL GLAZE	10K 5%	1/10W	R300	1-216-025-00	METAL GLAZE	100 5%	1/10W
R044	1-216-089-00	METAL GLAZE	47K 5%	1/10W	R301	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W
R045	1-216-033-00	METAL GLAZE	220 5%	1/10W	R302	1-216-049-00	METAL GLAZE	1K 5%	1/10W
R046	1-216-033-00	METAL GLAZE	220 5%	1/10W	R303	1-216-049-00	METAL GLAZE	1K 5%	1/10W
R047	1-216-033-00	METAL GLAZE	220 5%	1/10W	R304	1-216-049-00	METAL GLAZE	1K 5%	1/10W
R048	1-216-073-00	METAL GLAZE	10K 5%	1/10W	R305	1-216-025-00	METAL GLAZE	100 5%	1/10W
R049	1-216-033-00	METAL GLAZE	220 5%	1/10W	R306	1-216-025-00	METAL GLAZE	100 5%	1/10W
R050	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R307	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W
R051	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R308	1-216-073-00	METAL GLAZE	10K 5%	1/10W
R052	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R309	1-216-025-00	METAL GLAZE	100 5%	1/10W
R054	1-216-073-00	METAL GLAZE	10K 5%	1/10W	R310	1-216-081-00	METAL GLAZE	22K 5%	1/10W
R055	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R311	1-216-025-00	METAL GLAZE	100 5%	1/10W
R056	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R312	1-216-033-00	METAL GLAZE	220 5%	1/10W
R057	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R313	1-216-081-00	METAL GLAZE	22K 5%	1/10W
R058	1-216-073-00	METAL GLAZE	10K 5%	1/10W	R314	1-216-033-00	METAL GLAZE	220 5%	1/10W
R059	1-216-295-00	CONDUCTOR, CHIP			R315	1-216-067-00	METAL GLAZE	5.6K 5%	1/10W
R060	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R317	1-216-033-00	METAL GLAZE	220 5%	1/10W
R062	1-216-085-00	METAL GLAZE	33K 5%	1/10W	R318	1-216-071-00	METAL GLAZE	8.2K 5%	1/10W
R063	1-216-041-00	METAL GLAZE	470 5%	1/10W	R319	1-216-190-00	METAL GLAZE	470 5%	1/8W
R064	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R320	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W
R065	1-216-097-00	METAL GLAZE	100K 5%	1/10W	R321	1-216-190-00	METAL GLAZE	470 5%	1/8W
R066	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R323	1-216-295-00	CONDUCTOR, CHIP		
R067	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R324	1-216-025-00	METAL GLAZE	100 5%	1/10W
R068	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R325	1-216-043-91	METAL GLAZE	560 5%	1/10W
R069	1-216-073-00	METAL GLAZE	10K 5%	1/10W	R326	1-216-077-00	METAL GLAZE	15K 5%	1/10W
R071	1-216-073-00	METAL GLAZE	10K 5%	1/10W	R327	1-216-033-00	METAL GLAZE	220 5%	1/10W
R072	1-216-041-00	METAL GLAZE	470 5%	1/10W	R328	1-216-025-00	METAL GLAZE	100 5%	1/10W
R073	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R329	1-216-085-00	METAL GLAZE	33K 5%	1/10W
R074	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R330	1-216-039-00	METAL GLAZE	390 5%	1/10W
R075	1-216-069-00	METAL GLAZE	6.8K 5%	1/10W	R331	1-216-059-00	METAL GLAZE	2.7K 5%	1/10W
R076	1-216-089-00	METAL GLAZE	47K 5%	1/10W	R332	1-216-049-00	METAL GLAZE	1K 5%	1/10W
R077	1-216-097-00	METAL GLAZE	100K 5%	1/10W	R333	1-208-810-11	METAL CHIP	15K 0.50%	1/10W
R078	1-216-097-00	METAL GLAZE	100K 5%	1/10W	R335	1-216-033-00	METAL GLAZE	220 5%	1/10W
R079	1-216-081-00	METAL GLAZE	22K 5%	1/10W	R336	1-216-033-00	METAL GLAZE	220 5%	1/10W
R080	1-216-023-00	METAL GLAZE	82 5%	1/10W	R337	1-216-049-00	METAL GLAZE	1K 5%	1/10W
R081	1-216-041-00	METAL GLAZE	470 5%	1/10W	R338	1-216-049-00	METAL GLAZE	1K 5%	1/10W
R082	1-216-093-00	METAL GLAZE	68K 5%	1/10W	R339	1-216-655-11	METAL CHIP	1.5K 0.50%	1/10W
R083	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R340	1-216-033-00	METAL GLAZE	220 5%	1/10W
R084	1-216-073-00	METAL GLAZE	10K 5%	1/10W	R341	1-216-033-00	METAL GLAZE	220 5%	1/10W
R085	1-216-089-00	METAL GLAZE	47K 5%	1/10W					

M G

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK		
R342	1-216-033-00	METAL GLAZE	220	5%	1/10W									(KP-41T15)	
R343	1-216-077-00	METAL GLAZE	15K	5%	1/10W					R383	1-216-043-91	METAL GLAZE	560	5%	1/10W (KP-41T15)
R344	1-216-073-00	METAL GLAZE	10K	5%	1/10W					R384	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W (KP-41T15)
R345	1-216-025-00	METAL GLAZE	100	5%	1/10W					R385	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R346	1-216-037-00	METAL GLAZE	330	5%	1/10W					R386	1-216-121-00	METAL GLAZE	1M	5%	1/10W (KP-41T15)
R347	1-216-041-00	METAL GLAZE	470	5%	1/10W					R387	1-216-049-00	METAL GLAZE	1K	5%	1/10W (KP-41T15)
R348	1-216-049-00	METAL GLAZE	1K	5%	1/10W	(KP-41T15)				R388	1-216-295-00	CONDUCTOR, CHIP			(KP-41T15)
R349	1-216-033-00	METAL GLAZE	220	5%	1/10W					R389	1-216-033-00	METAL GLAZE	220	5%	1/10W (KP-41T15)
R350	1-216-033-00	METAL GLAZE	220	5%	1/10W					R390	1-216-033-00	METAL GLAZE	220	5%	1/10W
R351	1-216-033-00	METAL GLAZE	220	5%	1/10W					R391	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R352	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	(KP-41T15)				R392	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R353	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	(KP-41T15)				<CRYSTAL>					
R354	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W					X001	I-579-917-11	VIBRATOR, CRYSTAL			
R355	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W					X301	I-577-611-11	OSCILATOR, CERAMIC			
R356	1-216-031-00	METAL GLAZE	180	5%	1/10W	(KP-41T15)				X302	I-567-505-11	OSCILLATOR, CRYSTAL			
R357	1-216-031-00	METAL GLAZE	180	5%	1/10W					*****					
R358	1-216-049-00	METAL GLAZE	1K	5%	1/10W	(KP-41T15)				*A-1316-212-A	BOARD, COMPLETE				
R359	1-216-037-00	METAL GLAZE	330	5%	1/10W	(KP-41T15)				*****					
R360	1-216-035-00	METAL GLAZE	270	5%	1/10W					*4-047-936-01	PLATE, SHIELD, PIT				
R361	1-216-049-00	METAL GLAZE	1K	5%	1/10W					4-382-854-11	SCREW (M3X10), P, SW (+)				
R362	1-216-035-00	METAL GLAZE	270	5%	1/10W	(KP-41T15)				<CAPACITOR>					
R363	1-216-049-00	METAL GLAZE	1K	5%	1/10W	(KP-41T15)				C601	Δ I-136-311-51	FILM	0.47MF	20%	125V
R364	1-216-025-00	METAL GLAZE	100	5%	1/10W	(KP-41T15)				C602	Δ I-164-486-51	CERAMIC	0.0022MF	20%	400V
R365	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	(KP-41T15)				C603	Δ I-164-486-51	CERAMIC	0.0022MF	20%	400V
R366	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	(KP-41T15)				C604	Δ I-125-692-11	ELECT (BLOCK)	820MF	20%	200V
R367	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	(KP-41T15)				C605	Δ I-125-692-11	ELECT (BLOCK)	820MF	20%	200V
R368	1-216-025-00	METAL GLAZE	100	5%	1/10W	(KP-41T15)				C608	I-164-645-11	CERAMIC	1000PF	10%	500V
R369	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	(KP-41T15)				C609	I-164-645-11	CERAMIC	1000PF	10%	500V
R370	1-216-033-00	METAL GLAZE	220	5%	1/10W					C610	I-136-173-00	FILM	0.47MF	5%	50V
R371	1-216-049-00	METAL GLAZE	1K	5%	1/10W	(KP-41T15)				C611	I-136-171-00	FILM	0.33MF	5%	50V
R372	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	(KP-41T15)				C612	I-136-173-00	FILM	0.47MF	5%	50V
R373	1-216-035-00	METAL GLAZE	270	5%	1/10W	(KP-41T15)				C613	I-136-171-00	FILM	0.33MF	5%	50V
R374	1-216-085-00	METAL GLAZE	33K	5%	1/10W	(KP-41T15)				C614	I-164-735-11	CAP, CERAMIC	1500PF		
R375	1-216-075-00	METAL GLAZE	12K	5%	1/10W	(KP-41T15)				C615	I-129-720-00	FILM	0.033MF	5%	630V
R376	1-216-093-00	METAL GLAZE	68K	5%	1/10W	(KP-41T15)				C616	Δ I-136-311-51	FILM	0.47MF	20%	125V
R377	1-216-043-91	METAL GLAZE	560	5%	1/10W	(KP-41T15)				C618	Δ I-161-740-00	CERAMIC	470PF	10%	400V
R378	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	(KP-41T15)				C619	Δ I-161-740-00	CERAMIC	470PF	10%	400V
R379	1-216-083-00	METAL GLAZE	27K	5%	1/10W	(KP-41T15)				C651	I-128-548-11	ELECT	4700MF	20%	25V
R380	1-216-097-00	METAL GLAZE	100K	5%	1/10W	(KP-41T15)				C652	I-128-548-11	ELECT	4700MF	20%	25V
R381	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	(KP-41T15)				C653	I-162-318-11	CERAMIC	0.001MF	10%	500V
R382	1-216-085-00	METAL GLAZE	33K	5%	1/10W	(KP-41T15)				C655	I-128-548-11	ELECT	4700MF	20%	25V
										C657	I-126-926-11	ELECT	1000MF	20%	10V
										C658	I-126-768-11	ELECT	2200MF	20%	16V
										C659	I-126-944-11	ELECT	3300MF	20%	25V
										C660	I-164-644-11	CERAMIC	330PF	10%	500V
										C661	I-123-024-21	ELECT	33MF		
										C662	I-107-636-11	ELECT	10MF	20%	160V
										C663	I-126-948-11	ELECT	100MF	20%	35V
										C664	I-126-235-11	ELECT	100MF	20%	6.3V
										C665	I-126-964-11	ELECT	10MF	20%	50V
										C667	I-126-941-11	ELECT	470MF	20%	25V

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REF. NO. PART NO. DESCRIPTION

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
C668	1-104-664-11	ELECT	47MF	20%	25V	D679	8-719-911-19	DIODE ISS119-25
C669	1-162-318-11	CERAMIC	0.001MF	10%	500V	D680	8-719-200-82	DIODE 11ES2
C670	1-104-664-11	ELECT	47MF	20%	25V	D681	8-719-200-82	DIODE 11ES2
C671	1-104-664-11	ELECT	47MF	20%	25V	D682	8-719-200-82	DIODE 11ES2
C672	1-104-665-11	ELECT	100MF	20%	25V	D683	8-719-200-82	DIODE 11ES2
C673	1-104-664-11	ELECT	47MF	20%	25V	D685	8-719-911-19	DIODE ISS119-25
C674	1-104-664-11	ELECT	47MF	20%	25V	D686	8-719-911-19	DIODE ISS119-25
C675	1-104-664-11	ELECT	47MF	20%	25V	D687	8-719-109-51	DIODE RD2.0ESB2
C676	1-104-664-11	ELECT	47MF	20%	25V	D688	8-719-911-19	DIODE ISS119-25
C677	1-125-473-11	ELECT (BLOCK)	1000MF	20%	160V	D689	8-719-911-19	DIODE ISS119-25
C678	1-107-635-11	ELECT	4.7MF	20%	160V	D690	8-719-109-89	DIODE RD5.6ESB2
C679	1-164-644-11	CERAMIC	330PF	10%	500V	D691	8-719-911-19	DIODE ISS119-25
C680	1-124-903-11	ELECT	1MF	20%	50V	D693	8-719-911-19	DIODE ISS119-25
C682	1-124-903-11	ELECT	1MF	20%	50V			
C683	1-107-635-11	ELECT	4.7MF	20%	160V			
C690	1-126-934-11	ELECT	220MF	20%	16V			

<CONNECTOR>

CN606	1-695-915-11	TAB (CONTACT)
CN615	1-695-915-11	TAB (CONTACT)
CN616	*1-564-507-11	PLUG, CONNECTOR 4P
CN617	*1-580-843-11	PIN, CONNECTOR (POWER)
CN624	*1-564-507-11	PLUG, CONNECTOR 4P
CN625	*1-564-513-11	PLUG, CONNECTOR 10P
CN626	*1-564-506-11	PLUG, CONNECTOR 3P
CN653	*1-564-507-11	PLUG, CONNECTOR 4P
CN681	*1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P

<DIODE>

D601	A-1-719-052-29	DIODE LN4SB60-A
D604	8-719-911-19	DIODE ISS119-25
D605	8-719-911-19	DIODE ISS119-25
D606	8-719-911-19	DIODE ISS119-25
D607	8-719-911-19	DIODE ISS119-25
D608	8-719-911-19	DIODE ISS119-25
D609	8-719-911-19	DIODE ISS119-25
D610	8-719-911-19	DIODE ISS119-25
D611	8-719-911-19	DIODE ISS119-25
D651	8-719-052-91	DIODE D4SBS4-F
D655	8-719-052-92	DIODE D10SBS4F
D656	8-719-022-97	DIODE S2S4MF
D657	8-719-022-97	DIODE S2S4MF
D658	8-719-022-97	DIODE S2S4MF
D659	8-719-022-97	DIODE S2S4MF
D660	8-719-052-86	DIODE D2L40-TA
D661	8-719-052-86	DIODE D2L40-TA
D662	8-719-052-31	DIODE D1NL40-TR2
D663	8-719-052-31	DIODE D1NL40-TR2
D664	8-719-510-26	DIODE D1NL20
D665	8-719-911-19	DIODE ISS119-25
D666	8-719-110-58	DIODE RD22ESB3
D667	8-719-110-22	DIODE RD11ESB2
D669	8-719-911-19	DIODE ISS119-25
D670	8-719-110-41	DIODE RD15ESB2
D671	8-719-911-19	DIODE ISS119-25
D672	8-719-109-54	DIODE RD2.2ESB2
D673	8-719-110-49	DIODE RD18ESB2
D674	8-719-911-19	DIODE ISS119-25
D675	8-719-109-85	DIODE RD5.1ESB2
D676	8-719-911-19	DIODE ISS119-25
D677	8-719-911-19	DIODE ISS119-25
D678	8-719-911-19	DIODE ISS119-25

Les composants identifiés par une trame et une marque **Δ** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **Δ** are critical for safety.
Replace only with part number specified.

F601 A-1-533-193-11 CLIP, FUSE; F601
1-533-223-11 CLIP, FUSE; F601

<FERRITE BEAD>

FB651 1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH
FB652 1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH

<IC>

I665FA A-1-810-051-11 POWER MODULE DM-4X
IC652 8-759-701-79 IC NJM7812FA

<COIL>

L651	1-403-588-11	CIL, CHOKE 22UH
L652	1-403-588-11	CIL, CHOKE 22UH
L653	1-412-519-11	INDUCTOR 3.3UH
L654	1-403-588-11	CIL, CHOKE 22UH
L655	1-403-588-11	CIL, CHOKE 22UH
L656	1-412-519-11	INDUCTOR 3.3UH
L657	1-403-588-11	CIL, CHOKE 22UH
L658	1-403-588-11	CIL, CHOKE 22UH

<TRANSISTOR>

Q601	8-729-019-49	TRANSISTOR 2SC4834M
Q602	8-729-019-49	TRANSISTOR 2SC4834M
Q651	8-729-820-82	TRANSISTOR 2SA1208-S
Q652	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q653	8-729-230-45	TRANSISTOR 2SC458-YGR
Q654	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q655	8-729-230-45	TRANSISTOR 2SC2458-YGR
Q656	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q657	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q658	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q659	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q660	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q661	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q662	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q663	8-729-119-76	TRANSISTOR 2SA1175-HFE

<RESISTOR>

R602	Δ 1-202-888-91	SOLID	2.2M	20%	1/2W
R603	Δ 1-205-997-11	WIREWOUND	2.2	5%	10W
R604	Δ 1-247-891-91	CARBON	330K	5%	1/4W
R605	Δ 1-247-891-91	CARBON	330K	5%	1/4W

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R606 Δ	1-202-933-61	FUSEABLE	0.1 10V 1/2W				
R607	1-247-891-00	CARBON	330K 5% 1/4W				
R608	1-247-891-00	CARBON	330K 5% 1/4W				
R609	1-216-369-00	METAL OXIDE	1 5% 2W F				
R610	1-247-891-00	CARBON	330K 5% 1/4W				
R611	1-247-891-00	CARBON	330K 5% 1/4W				
R612	1-216-369-00	METAL OXIDE	1 5% 2W F				
R613	1-247-791-91	CARBON	22 5% 1/4W				
R614	1-247-791-91	CARBON	22 5% 1/4W				
R615	1-247-791-91	CARBON	22 5% 1/4W				
R616	1-247-791-91	CARBON	22 5% 1/4W				
R631	1-247-863-91	CARBON	22K 5% 1/4W				
R632	1-247-807-31	CARBON	100 5% 1/4W				
R633	1-247-807-31	CARBON	100 5% 1/4W				
R634	1-249-417-11	CARBON	1K 5% 1/4W				
R635	1-249-425-11	CARBON	4.7K 5% 1/4W				
R636	1-249-413-11	CARBON	470 5% 1/4W				
R651	1-216-370-11	METAL OXIDE	1.2 5% 2W F				
R653	1-249-418-11	CARBON	1.2K 5% 1/4W F				
R654	1-215-473-00	METAL	150K 1% 1/4W				
R655	1-249-441-11	CARBON	100K 5% 1/4W				
R656	1-216-369-00	METAL OXIDE	1 5% 2W F				
R657	1-249-429-11	CARBON	10K 5% 1/4W				
R658	1-247-883-00	CARBON	150K 5% 1/4W				
R659	1-249-417-11	CARBON	1K 5% 1/4W F				
R660	1-249-417-11	CARBON	1K 5% 1/4W				
R661	1-215-471-00	METAL	120K 1% 1/4W				
R662 Δ	1-216-472-11	METAL	20K 1% 1/4W				
R664	1-249-429-11	CARBON	10K 5% 1/4W				
R665	1-249-425-11	CARBON	4.7K 5% 1/4W				
R666	1-249-429-11	CARBON	10K 5% 1/4W				
R667	1-249-429-11	CARBON	10K 5% 1/4W				
R670	1-247-895-00	CARBON	470K 5% 1/4W				
R672	1-247-807-31	CARBON	100 5% 1/4W				
R673	1-249-423-11	CARBON	3.3K 5% 1/4W				
R674	1-249-413-11	CARBON	470 5% 1/4W				
R675	1-249-429-11	CARBON	10K 5% 1/4W				
R676	1-249-421-11	CARBON	2.2K 5% 1/4W				
R677	1-249-417-11	CARBON	1K 5% 1/4W				
R678	1-249-423-11	CARBON	3.3K 5% 1/4W				
R679	1-249-423-11	CARBON	3.3K 5% 1/4W				
R680	1-249-413-11	CARBON	470 5% 1/4W				
R681	1-249-425-11	CARBON	4.7K 5% 1/4W				
R682	1-249-403-11	CARBON	68 5% 1/4W				
R683	1-249-417-11	CARBON	1K 5% 1/4W				
R684	1-249-417-11	CARBON	1K 5% 1/4W				
R685	1-247-863-91	CARBON	22K 5% 1/4W				
R686	1-249-429-11	CARBON	10K 5% 1/4W				
R687	1-249-423-11	CARBON	3.3K 5% 1/4W				
R688	1-249-423-11	CARBON	3.3K 5% 1/4W				
R689	1-249-429-11	CARBON	10K 5% 1/4W				
R690	1-247-863-91	CARBON	22K 5% 1/4W				
R691	1-249-417-11	CARBON	1K 5% 1/4W				
R693	1-249-425-11	CARBON	4.7K 5% 1/4W				
R694	1-249-425-11	CARBON	4.7K 5% 1/4W				
R695	1-249-429-11	CARBON	10K 5% 1/4W				
R697	1-249-413-11	CARBON	470 5% 1/4W				
R698	1-249-429-11	CARBON	10K 5% 1/4W				
R699	1-249-417-11	CARBON	1K 5% 1/4W				
<RELAY>							
RY601A 1-755-032-11 RELAY							
RY602A 1-755-032-11 RELAY							
<TRANSFORMER>							
T601 Δ	1-427-850-11	TRANSFORMER	LINE FILTER				
T602 Δ	1-427-863-11	TRANSFORMER	CONVERTER (PLT)				
T603 Δ	1-427-865-11	TRANSFORMER	POWER				
T604 Δ	1-427-864-11	TRANSFORMER	CONVERTER (PHT)				
T605 Δ	1-427-850-11	TRANSFORMER	LINE FILTER				

*A-1331-408-A CR BOARD, COMPLETE							

<CAPACITOR>							
C701	1-104-664-11	ELECT	47MF	20%	25V		
C702	1-107-662-11	ELECT	22MF	20%	250V		
C703	1-161-754-00	CERAMIC	0.001MF	10%	2KV		
C704	1-126-768-11	ELECT	2200MF	20%	16V		
C705	1-102-050-00	CERAMIC	0.01MF	99%	500V		
C706	1-102-965-00	CERAMIC	39PF	5%	50V		
C707	1-102-129-00	CERAMIC	0.01MF	10%	50V		
C708	1-104-664-11	ELECT	47MF	20%	25V		
C709	1-107-651-11	ELECT	4.7MF	20%	250V		
C710	1-102-157-00	CERAMIC	560PF	10%	500V		
C714	1-162-115-00	CERAMIC	330PF	10%	2KV		
<CONNECTOR>							
CN701	*1-508-784-00	PIN, CONNECTOR (5MM PITCH)	1P				
CN702	*1-564-510-11	PLUG, CONNECTOR 7P					
CN703	*1-564-512-11	PLUG, CONNECTOR 9P					
CN704	*1-564-512-11	PLUG, CONNECTOR 9P					
CN705	*1-564-511-11	PLUG, CONNECTOR 8P					
CN706	1-695-915-11	TAB (CONTACT)					
CN708	1-251-179-11	SOCKET, PLUG 10P					
CN709	*1-564-506-11	PLUG, CONNECTOR 3P					
<DIODE>							
D701	8-719-911-19	DIODE	ISS119-25				
D702	8-719-911-19	DIODE	ISS119-25				
D703	8-719-911-19	DIODE	ISS119-25				
D704	8-719-110-36	DIODE	RD13ESB2				
D705	8-719-987-87	DIODE	BRA82-009				
D706	8-719-911-19	DIODE	ISS119-25				
D707	8-719-110-36	DIODE	RD13ESB2				
D708	8-719-901-83	DIODE	ISS83				
D710	8-719-109-89	DIODE	RD5-6ESB2				
D711	8-719-911-19	DIODE	ISS119-25				
D713	8-719-510-48	DIODE	D1N20R				
D715	8-719-901-83	DIODE	ISS83				
D716	8-719-110-36	DIODE	RD13ESB2				
D717	8-719-110-36	DIODE	RD13ESB2				
<IC>							
IC701	8-759-168-72	IC	TDA6101Q				
<COIL>							
L701	1-408-429-00	INDUCTOR	470UH				
L703	1-408-159-00	COIL, SPOOK CHOKE	3.3UH				

CR CG CB

Les composants identifiés par une trame et une marque **Δ** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **Δ** are critical for safety. Replace only with part number specified.

REF. NO. PART NO. DESCRIPTION

REF. NO. PART NO. DESCRIPTION

REMARK

<NEON LAMP>

NL701 1-519-108-XX LAMP, NEON

D731 8-719-110-36 DIODE RD13ESB2
D732 8-719-901-83 DIODE 1SS83
D735 8-719-901-83 DIODE 1SS83
D736 8-719-510-48 DIODE D1N20R
D737 8-719-110-36 DIODE RD13ESB2

<TRANSISTOR>

Q701 8-729-119-76 TRANSISTOR 2SA1175-HFE

<IC>

IC731 8-759-168-72 IC TDA6101Q

<RESISTOR>

R701	1-215-411-00	METAL	390	1%	1/4W
R702	1-215-414-00	METAL	510	1%	1/4W
R704	1-202-847-00	SOLID	560K	20%	1/2W
R706	1-249-407-11	CARBON	150	5%	1/4W
R707	1-215-423-00	METAL	1.2K	1%	1/4W
R708	1-202-883-11	SOLID	680K	20%	1/2W
R709	1-215-437-00	METAL	4.7K	1%	1/4W
R710	1-215-427-00	METAL	1.8K	1%	1/4W
R711	1-215-427-00	METAL	1.8K	1%	1/4W
R712	1-215-903-11	METAL OXIDE	68K	5%	2W F

<COIL>

L731 1-408-429-00 INDUCTOR 470UH
L732 1-408-159-00 COIL, SPOOK CHOKER 3.3UH

<NEON LAMP>

NL731 1-519-108-XX LAMP, NEON

<RESISTOR>

R713	1-202-818-00	SOLID	1K	20%	1/2W
R714	1-202-818-00	SOLID	1K	20%	1/2W
R715	1-249-436-11	CARBON	39K	5%	1/4W
R716	1-249-437-11	CARBON	47K	5%	1/4W
R718	1-249-417-11	CARBON	1K	5%	1/4W
R719	1-247-807-31	CARBON	100	5%	1/4W
R720	1-249-437-11	CARBON	47K	5%	1/4W
R721	1-202-549-00	SOLID	100	20%	1/2W
R722	1-202-549-00	SOLID	100	20%	1/2W

<NEON LAMP>

NL731 1-519-108-XX LAMP, NEON

<SPARK GAP>

SG701 1-519-422-11 GAP, SPARK
SG702 1-519-422-11 GAP, SPARK
SG703 1-519-422-11 GAP, SPARK

R731	1-202-818-00	SOLID	560K	20%	1/2W
R733	1-202-883-11	SOLID	680K	20%	1/2W
R734	1-202-818-00	SOLID	1K	20%	1/2W
R735	1-249-407-11	CARBON	150	5%	1/4W
R736	1-249-441-11	CARBON	100K	5%	1/4W

<SPARK GAP>

*A-1331-409-A CG BOARD, COMPLETE

SG731	1-519-422-11	GAP, SPARK
SG732	1-519-422-11	GAP, SPARK
SG733	1-519-422-11	GAP, SPARK

<CAPACITOR>

C731	1-161-754-00	CERAMIC	0.001MF	10%	2KV
C732	1-107-662-11	ELECT	22MF	20%	250V
C733	1-102-050-00	CERAMIC	0.01MF	99%	500V
C736	1-126-964-11	ELECT	10MF	20%	50V
C738	1-107-651-11	ELECT	4.7MF	20%	250V
C739	1-164-066-11	CERAMIC	68PF	5%	50V
C740	1-126-964-11	ELECT	10MF	20%	50V
C741	1-102-157-00	CERAMIC	560PF	10%	500V
C742	1-162-115-00	CERAMIC	330PF	10%	2KV

*A-1331-410-A CB BOARD, COMPLETE

<CONNECTOR>

CN731 *1-508-784-00 PIN, CONNECTOR (5MM PITCH) 1P
CN732 *1-564-512-11 PLUG, CONNECTOR 9P
CN733 *1-564-512-11 PLUG, CONNECTOR 9P
CN734 *1-564-511-11 PLUG, CONNECTOR 8P
CN735 *1-564-509-11 PLUG, CONNECTOR 6P

CN736 1-695-915-11 TAB (CONTACT)
CN738Δ 1-251-179-11 SOCKET PICTURE TUBE

<CAPACITOR>

C761	1-161-754-00	CERAMIC	0.001MF	10%	2KV
C762	1-107-662-11	ELECT	22MF	20%	250V
C763	1-102-050-00	CERAMIC	0.01MF	99%	500V
C766	1-107-651-11	ELECT	4.7MF	20%	250V
C769	1-164-066-11	CERAMIC	68PF	5%	50V
C770	1-126-964-11	ELECT	10MF	20%	50V
C771	1-102-157-00	CERAMIC	560PF	10%	500V
C772	1-162-115-00	CERAMIC	330PF	10%	2KV

<CONNECTOR>

CN761	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P
CN762	*1-564-512-11	PLUG, CONNECTOR 9P
CN763	*1-564-509-11	PLUG, CONNECTOR 6P
CN766	1-695-915-11	TAB (CONTACT)
CN768Δ	1-251-179-11	SOCKET PICTURE TUBE

<DIODE>

<DIODE>

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CB E

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D761	8-719-110-36	DIODE RD13ESB2		C814	1-124-122-11	ELECT	100MF 20% 50V
D762	8-719-901-83	DIODE ISS83		C815	1-162-114-00	CERAMIC	0.0047MF 2KV
D763	8-719-911-19	DIODE ISS119-25		C818 Δ	1-109-833-11	FILM	0.0143MF 3% 1.8KV
D764	8-719-110-36	DIODE RD13ESB2		C819	1-130-489-00	FILM	0.033MF 5% 50V
D765	8-719-110-36	DIODE RD13ESB2		C820	1-124-902-00	ELECT	0.47MF 20% 50V
D767	8-719-901-83	DIODE ISS83		C823	1-136-601-11	FILM	0.01MF 5% 630V
D768	8-719-510-48	DIODE DIN20R		C824	1-126-964-11	ELECT	10MF 20% 50V
D769	8-719-110-36	DIODE RD13ESB2		C825	1-162-318-11	CERAMIC	0.001MF 10% 500V
				C826	1-130-467-00	FILM	470PF 5% 50V
				C827	1-107-652-11	ELECT	10MF 20% 250V
			<IC>	C828	1-111-036-91	ELECT	470MF 20% 16V
IC761	8-759-168-72	IC TDA6101Q		C830	1-107-368-11	FILM	0.047MF 10% 200V
				C831	1-126-934-11	ELECT	220MF 20% 16V
				C832	1-124-927-11	ELECT	4.7MF 20% 50V
			<COIL>	C901	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
L761	1-408-429-00	INDUCTOR 470UH		C902	1-137-370-11	FILM	0.01MF 5% 50V
L762	1-408-159-00	COIL, SPOOK CHOKE 3.3UH		C903	1-137-361-11	FILM	330PF 5% 50V
				C904	1-137-358-11	FILM	0.0001MF 5% 50V
				C905	1-104-665-11	ELECT	100MF 20% 25V
			<NEON LAMP>	C906	1-137-370-11	FILM	0.01MF 5% 50V
NL760	1-519-108-XX	LAMP, NBON		C907	1-104-665-11	ELECT	100MF 20% 25V
				C908	1-137-361-11	FILM	330PF 5% 50V
				C909	1-124-903-11	ELECT	1MF 20% 50V
				C911	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
			<RESISTOR>	C912	1-124-903-11	ELECT	1MF 20% 50V
R761	1-202-847-00	SOLID 560K 20% 1/2W		C913	1-124-903-11	ELECT	1MF 20% 50V
R763	1-202-883-11	SOLID 680K 20% 1/2W		C915	1-163-105-00	CERAMIC CHIP	33PF 5% 50V
R764	1-202-818-00	SOLID 1K 20% 1/2W		C916	1-124-927-11	ELECT	4.7MF 20% 50V
R767	1-202-818-00	SOLID 1K 20% 1/2W		C917	1-126-964-11	ELECT	10MF 20% 50V
R768	1-202-549-00	SOLID 100 20% 1/2W		C918	1-137-364-11	FILM	0.001MF 5% 50V
R769	1-215-421-00	METAL 1K 1% 1/4W		C919	1-126-964-11	ELECT	10MF 20% 50V
R770	1-249-426-11	CARBON 5.6K 5% 1/4W		C920	1-124-902-00	ELECT	0.47MF 20% 50V
R771	1-215-427-00	METAL 1.8K 1% 1/4W		C921	1-126-964-11	ELECT	10MF 20% 50V
R773	1-215-903-11	METAL OXIDE 68K 5% 2W		C923	1-126-964-11	ELECT	10MF 20% 50V
R774	1-249-407-11	CARBON 150 5% 1/4W		C924	1-126-940-11	ELECT	330MF 20% 16V
R775	1-202-549-00	SOLID 100 20% 1/2W		C925	1-137-372-11	FILM	0.022MF 5% 50V
				C926	1-104-665-11	ELECT	100MF 20% 25V
				C927	1-137-364-11	FILM	0.001MF 5% 50V
				C929	1-137-416-11	FILM	0.01MF 10% 100V
			<SPARK GAP>	C930	1-137-364-11	FILM	0.001MF 5% 50V
SG761	1-519-422-11	GAP, SPARK		C931	1-126-967-11	ELECT	47MF 20% 50V
SG762	1-519-422-11	GAP, SPARK		C932	1-124-903-11	ELECT	1MF 20% 50V
SG763	1-519-422-11	GAP, SPARK		C934	1-137-370-11	FILM	0.01MF 5% 50V
				C935	1-137-399-11	FILM	0.1MF 10% 100V

*A-1341-885-A E BOARD, COMPLETE							

1-923-505-05 WIRE UL1007 AWG24 50MM GRY							
4-365-216-00 SPACER, MICA							
4-382-854-11 SCREW (M3X10), P, SW (+)							
				C936	1-126-964-11	ELECT	10MF 20% 50V
				C937	1-126-964-11	ELECT	10MF 20% 50V
				C938	1-126-940-11	ELECT	330MF 20% 16V
				C939	1-126-964-11	ELECT	10MF 20% 50V
				C940	1-104-663-11	ELECT	33MF 20% 25V
				C941	1-126-964-11	ELECT	10MF 20% 50V
				C942	1-104-663-11	ELECT	33MF 20% 25V
				C943	1-128-551-11	ELECT	22MF 20% 50V
				C944	1-126-964-11	ELECT	10MF 20% 50V
				C945	1-126-964-11	ELECT	10MF 20% 50V
C801	1-110-626-11	ELECT 330MF 20% 160V		C946	1-124-925-11	ELECT	2.2MF 20% 50V
C802	1-163-117-00	CERAMIC CHIP 100PF 5% 50V		C947	1-104-665-11	ELECT	100MF 20% 25V
C803	1-110-626-11	ELECT 330MF 20% 160V		C948	1-104-665-11	ELECT	100MF 20% 25V
C805	1-136-173-00	FILM 0.47MF 5% 50V		C949	1-126-964-11	ELECT	10MF 20% 50V
C806	1-102-030-00	CERAMIC 330PF 10% 500V		C950	1-126-964-11	ELECT	10MF 20% 50V
C807	1-106-387-00	MYLAR 0.068MF 10% 200V		C951	1-124-903-11	ELECT	1MF 20% 50V
C808	1-107-636-11	ELECT 10MF 20% 160V		C953	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V
C809	1-104-664-11	ELECT 47MF 20% 25V		C954	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V
C810	1-130-481-00	FILM 0.0068MF 5% 50V		C955	1-126-964-11	ELECT	10MF 20% 50V
C811	1-137-475-11	FILM 2.2MF 10% 250V		C980	1-137-368-11	FILM	0.0047MF 5% 50V
C812	1-128-551-11	ELECT 22MF 20% 50V					

E

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
<CONDUCTOR CHIP>											
CJ901	1-216-295-00	CONDUCTOR, CHIP		F8001	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH					
CJ902	1-216-295-00	CONDUCTOR, CHIP		F8002	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH					
<CONNECTOR>											
CN802	*1-564-510-11	PLUG, CONNECTOR 7P		IC901	8-759-133-90	IC UPC339C					
CM805	1-695-915-11	TAB (CONTACT)		IC902	8-759-133-90	IC UPC339C					
CN827	*1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P		IC903	8-759-711-28	IC NJM2058D					
CN851	*1-564-509-11	PLUG, CONNECTOR 6P		IC904	8-759-634-51	IC M5218AP					
CN881	*1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P		IC905	8-759-929-65	IC LM7912CT					
CN882	*1-691-135-11	PIN, CONNECTOR (PC BOARD) 4P		IC906	8-759-701-79	IC NJM7812FA					
CN884	*1-573-964-11	PIN, CONNECTOR (PC BOARD) 6P		<COIL>							
CN885	*1-506-371-00	PIN, CONNECTOR 2P		L801	1-406-665-11	COIL, CHOKE 100UH					
CN886	*1-506-371-00	PIN, CONNECTOR 2P		L802	1-406-665-11	COIL, CHOKE 100UH					
CN904	*1-564-507-11	PLUG, CONNECTOR 4P		L803	1-422-613-11	COIL, AIR CORE					
<DIODE>											
D801	8-719-109-85	DIODE RD5.1BSB2		L804	1-411-286-11	COIL, CHOKE 220UH					
D802	8-719-404-46	DIODE MA110		L901	1-408-416-00	INDUCTOR 39UH					
D803	8-719-971-20	DIODE ERC38-06		L902	1-408-416-00	INDUCTOR 39UH					
D804	8-719-908-03	DIODE GP08D		<NEON LAMP>							
D805	8-719-945-80	DIODE ERC06-15S		NL802	1-519-108-XX	LAMP, NEON					
D806	8-719-911-19	DIODE ISS119-25		<TRANSISTOR>							
D807	8-719-945-80	DIODE ERC06-15S		Q801	8-729-119-80	TRANSISTOR 2SC2688-LK					
D808	8-719-500-71	DIODE D8LC40F		Q802	8-729-119-80	TRANSISTOR 2SC2688-LK					
D809	8-719-911-19	DIODE ISS119-25		Q803	8-729-122-12	TRANSISTOR 2SA1221-L					
D810	8-719-945-80	DIODE ERC06-15S		Q806	8-729-805-07	TRANSISTOR 2SD1887-CA					
D811	8-719-920-67	DIODE ERC91-02		Q807	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D812	8-719-404-46	DIODE MA110		Q808	8-729-024-30	TRANSISTOR IRFI640LF					
D814	8-719-920-67	DIODE ERC91-02		Q809	8-729-823-81	TRANSISTOR 2SC4632LS-CB7					
D816	8-719-404-46	DIODE MA110		Q810	8-729-231-55	TRANSISTOR 2SC2878AB					
D817	8-719-404-46	DIODE MA110		Q811	8-729-823-81	TRANSISTOR 2SC4632LS-CB7					
D818	8-719-404-46	DIODE MA110		Q813	8-729-216-22	TRANSISTOR 2SA1162-G					
D819	8-719-105-82	DIODE RD5.1M-B2		Q901	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D901	8-719-404-46	DIODE MA110		Q902	8-729-140-93	TRANSISTOR 2SB733-34					
D902	8-719-404-46	DIODE MA110		Q903	8-729-140-96	TRANSISTOR 2SD774-34					
D904	8-719-404-46	DIODE MA110		Q904	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D905	8-719-404-46	DIODE MA110		Q905	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D907	8-719-404-46	DIODE MA110		Q906	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D908	8-719-105-82	DIODE RD5.1M-B2		Q907	8-729-231-55	TRANSISTOR 2SC2878AB					
D909	8-719-302-43	DIODE EL12		Q908	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D911	8-719-105-82	DIODE RD5.1M-B2		Q909	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D912	8-719-105-82	DIODE RD5.1M-B2		Q910	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D913	8-719-404-46	DIODE MA110		Q911	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D914	8-719-404-46	DIODE MA110		Q912	8-729-216-22	TRANSISTOR 2SA1162-G					
D915	8-719-404-46	DIODE MA110		Q913	8-729-900-36	TRANSISTOR DTC124ES					
D916	8-719-105-57	DIODE RD3.9M-B1		Q914	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D917	8-719-404-46	DIODE MA110		Q915	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
D918	8-719-404-46	DIODE MA110		<RESISTOR>							
D919	8-719-106-81	DIODE RD13M-B3		R801	1-216-041-00	METAL GLAZE	470	5%	1/10W		
D920	8-759-157-40	DIODE UPC574J		R802	1-249-421-11	CARBON	2.2K	5%	1/4W		
D921	8-719-106-81	DIODE RD13M-B3		R804	1-249-425-11	CARBON	4.7K	5%	1/4W	F	
D922	8-719-404-46	DIODE MA110		R805	1-216-435-11	METAL OXIDE	2.7K	5%	1W	F	
D923	8-719-404-46	DIODE MA110		R806	1-249-431-11	CARBON	15K	5%	1/4W	F	
D924	8-719-404-46	DIODE MA110		R807	1-260-325-11	CARBON	560	5%	1/2W		
D925	8-719-105-45	DIODE RD3.3M-B1		R808	A	CARBON			1/4W	F	
D926	8-719-404-46	DIODE MA110									
D927	8-719-105-73	DIODE RD4.7M-B2									

• The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

E

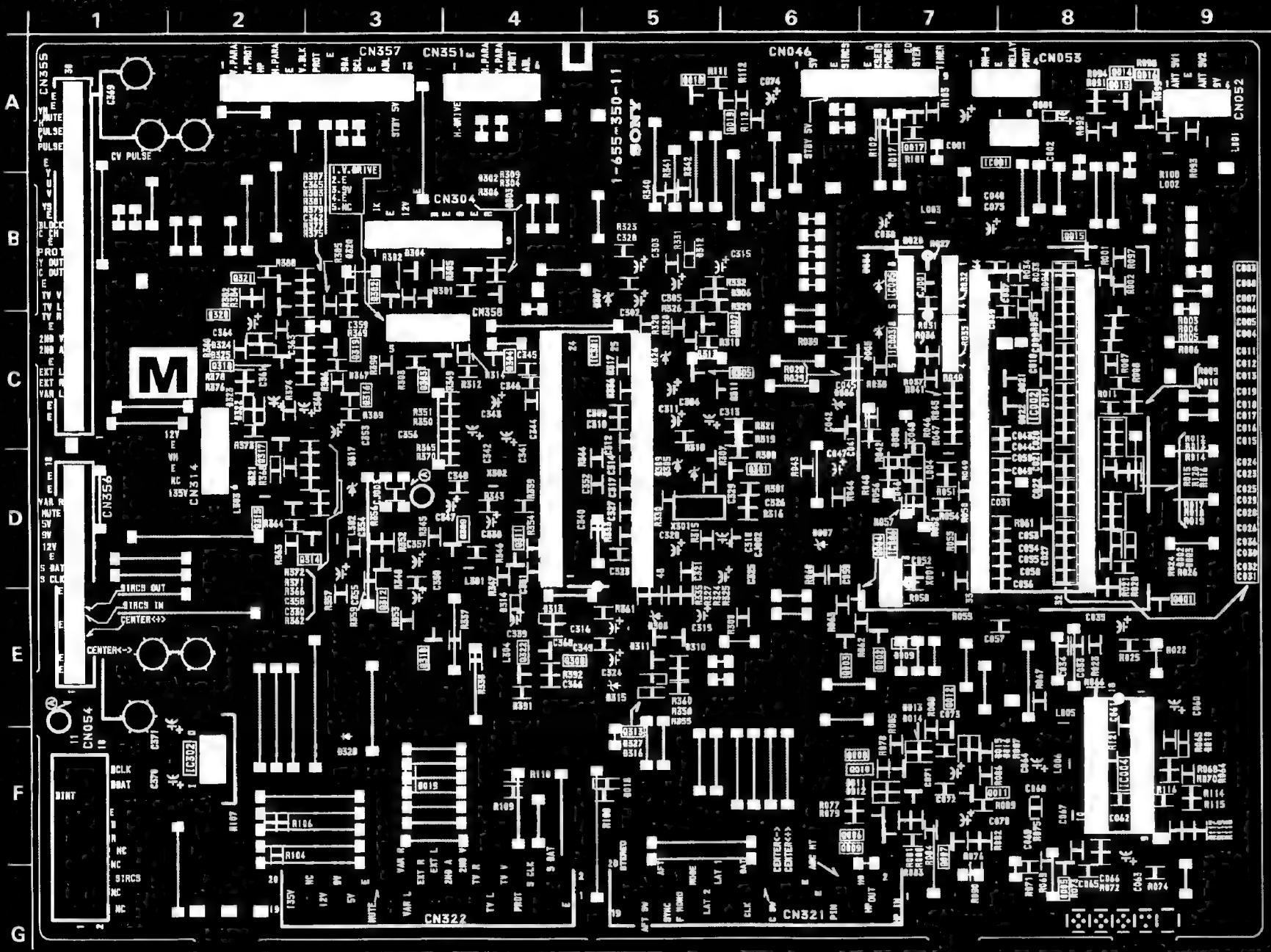
The components identified by shading and mark **▲** are critical for safety.
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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R809 ▲		CARBON	1/4W F	R928	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R810	1-249-427-11	CARBON	6.8K 5% 1/4W F	R929	1-216-041-00	METAL GLAZE	470 5% 1/10W
R811	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R930	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R812	1-216-395-00	METAL OXIDE	3.3 5% 3W F	R931	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R813	1-216-484-00	METAL OXIDE	3.9K 5% 3W F	R932	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R814	1-215-919-11	METAL OXIDE	2.2K 5% 3W F	R933	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R816	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	R934	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R817	1-216-395-00	METAL OXIDE	3.3 5% 3W F	R935	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R818	1-249-405-11	CARBON	100 5% 1/4W F	R936	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R819	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R937	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R820	1-215-905-11	METAL OXIDE	10 5% 3W F	R938	1-208-810-11	METAL CHIP	15K 0.50% 1/10W
R821	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R939	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R822	1-215-928-11	METAL OXIDE	68K 5% 3W F	R940	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R823	1-216-047-00	METAL GLAZE	820 5% 1/10W	R941	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R825	1-215-928-11	METAL OXIDE	68K 5% 3W F	R942	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R826	1-216-033-00	METAL GLAZE	220 5% 1/10W	R943	1-249-377-11	CARBON	0.47 5% 1/4W F
R830	1-215-928-11	METAL OXIDE	68K 5% 3W F	R944	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R831	1-215-919-11	METAL OXIDE	2.2K 5% 3W F	R945	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R832	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R946	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R835	1-249-474-11	CARBON	1 5% 1/2W F	R947	1-216-025-00	METAL GLAZE	100 5% 1/10W
R836	1-202-818-00	SOLID	1K 20% 1/2W	R948	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R837	1-215-870-11	METAL OXIDE	1.5K 5% 1W F	R950	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R838	1-247-807-31	CARBON	100 5% 1/4W F	R952	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R839	1-249-429-11	CARBON	10K 5% 1/4W F	R954	1-214-777-00	METAL	100K 1% 1/4W
R841	1-216-491-11	METAL OXIDE	56K 5% 3W F	R955	1-214-769-00	METAL	47K 1% 1/4W
R843	1-202-549-00	SOLID	100 20% 1/2W	R956	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R844	1-216-491-11	METAL OXIDE	56K 5% 3W F	R957	1-218-754-11	METAL CHIP	120K 0.50% 1/10W
R846	1-202-838-00	SOLID	100K 20% 1/2W	R958	1-218-756-11	METAL CHIP	150K 0.50% 1/10W
R847	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R959	1-214-757-00	METAL	15K 1% 1/4W
R849	1-247-863-91	CARBON	22K 5% 1/4W	R960	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R850	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R962	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R851	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W	R963	1-214-749-00	METAL	6.8K 1% 1/4W
R852	1-208-806-11	METAL CHIP	10K 0.50% 1/10W	R964	1-214-757-00	METAL	15K 1% 1/4W
R854	1-249-381-11	CARBON	1 5% 1/4W F	R965	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R855	1-208-822-11	METAL CHIP	47K 0.50% 1/10W	R966	1-214-757-00	METAL	15K 1% 1/4W
R856	1-208-822-11	METAL CHIP	47K 0.50% 1/10W	R967	1-216-025-00	METAL GLAZE	100 5% 1/10W
R857	1-218-755-11	METAL CHIP	130K 0.50% 1/10W	R968	1-214-751-00	METAL	8.2K 1% 1/4W
R858	1-216-676-11	METAL CHIP	11K 0.50% 1/10W	R969	1-214-731-00	METAL	1.2K 1% 1/4W
R901	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R970	1-214-757-00	METAL	15K 1% 1/4W
R902	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R971	1-216-121-00	METAL GLAZE	1M 5% 1/10W
R903	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R972	1-216-699-11	METAL CHIP	100K 0.50% 1/10W
R904	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R973	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R905	1-247-739-11	CARBON	100 5% 1/2W F	R974	1-216-699-11	METAL CHIP	100K 0.50% 1/10W
R906	1-247-739-11	CARBON	100 5% 1/2W F	R975	1-216-043-91	METAL GLAZE	560 5% 1/10W
R907	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R976	1-216-041-00	METAL GLAZE	470 5% 1/10W
R908	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R977	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R909	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R978	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R910	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R979	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R911	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R980	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R912	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R981	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R913	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R982	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W
R914	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R983 ▲		METAL GLAZE	1/10W
R915	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R984	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R916	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R985	1-208-812-11	METAL CHIP	18K 0.50% 1/10W
R917	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R986	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R918	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R987	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R919	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R988 ▲		METAL GLAZE	1/10W
R920	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R989	1-216-462-00	METAL OXIDE	8.2K 5% 2W F
R921	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R990	1-215-897-11	METAL OXIDE	6.8K 5% 2W F
R922	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R991	1-208-803-11	METAL CHIP	7.5K 0.50% 1/10W
R923	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R992	1-249-431-11	CARBON	15K 5% 1/4W
R924	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R993	1-249-431-11	CARBON	15K 5% 1/4W
R926	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R994	1-247-807-31	CARBON	100 5% 1/4W
R927	1-249-377-11	CARBON	0.47 5% 1/4W F				

• The components identified by **■** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- M BOARD -



M BOARD

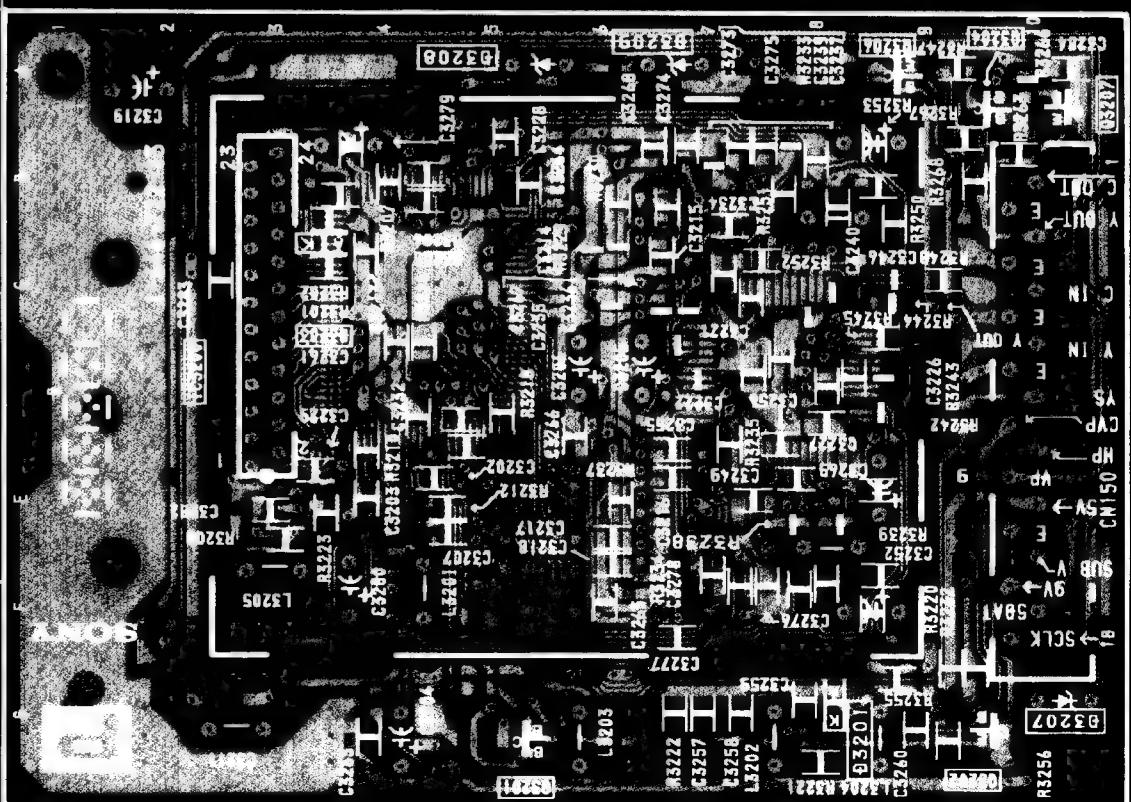
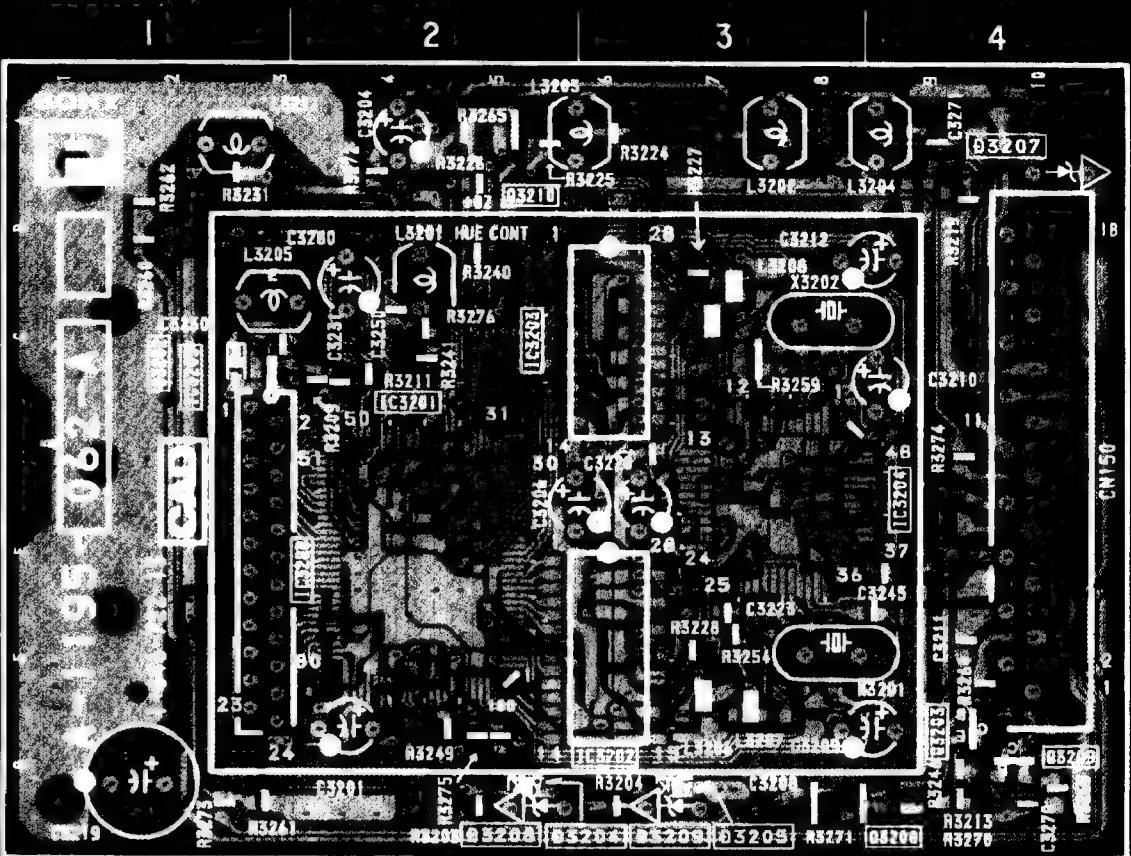
IC	DIODE
IC001	A - 8
IC002	C - 8
IC003	C - 7
IC004	F - 8
IC005	B - 7
IC006	E - 7
IC301	C - 5
IC302	F - 2
TRANSISTOR	
Q001	E - 9
Q002	E - 7
Q003	E - 6
Q004	E - 7
Q005	G - 8
Q006	F - 7
Q007	F - 7
Q008	F - 7
Q009	F - 7
Q010	F - 7
Q011	F - 7
Q012	F - 7
Q017	A - 7
Q018	A - 5
Q019	A - 6
Q301	D - 6
Q302	C - 3
Q303	C - 4
Q304	C - 4
Q305	C - 5
Q307	C - 5
Q308	E - 4
Q309	D - 4
Q310	E - 4
Q311	D - 4
Q312	E - 3
Q313	E - 5
Q314	D - 3
Q315	D - 3
Q316	C - 3
Q317	D - 2
Q318	C - 2
Q319	C - 3
Q320	C - 2
Q321	B - 2
Q322	E - 4
D001	A - 8
D002	D - 8
D003	D - 9
D004	B - 7
D005	C - 7
D006	C - 6
D007	D - 6
D008	D - 7
D009	E - 7
D010	F - 9
D011	F - 7
D012	F - 7
D013	F - 7
D014	F - 7
D015	F - 7
D016	F - 7
D017	A - 7
D018	F - 5
D019	F - 3
D020	B - 7
D305	D - 5
D307	C - 5
D308	E - 5
D309	D - 5
D310	E - 5
D311	E - 5
D312	B - 5
D313	E - 4
D314	E - 4
D315	E - 5
D316	E - 5
D317	D - 3
D320	B - 3
D321	D - 2
D322	C - 2
D323	C - 2
D324	C - 2
D325	C - 2
D326	C - 5
D327	E - 5
D328	F - 3

P

[PICTURE IN PICTURE]

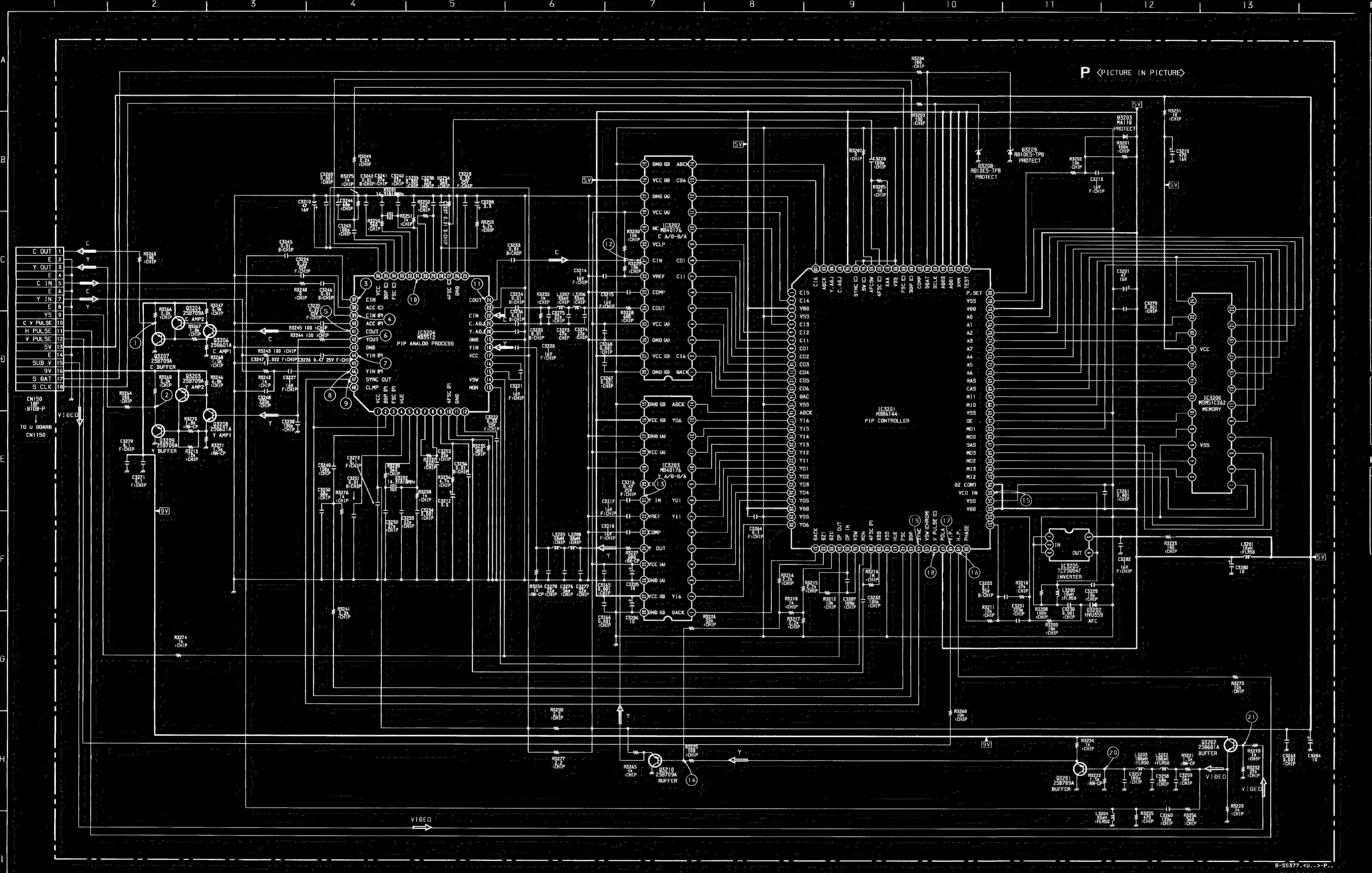
P BOARD

IC	
IC3200	E - 1
IC3201	B - 2
IC3202	C - 3
IC3203	B - 3
IC3204	B - 3
IC3205	B - 1
TRANSISTOR	
Q3201	F - 2
Q3202	C - 4
Q3203	C - 4
Q3204	D - 4
Q3206	D - 4
Q3207	D - 4
Q3208	C - 3
Q3209	C - 4
Q3210	A - 2
DIODE	
D3202	B - 4
D3203	D - 2
D3208	D - 2
D3209	D - 3



Note:

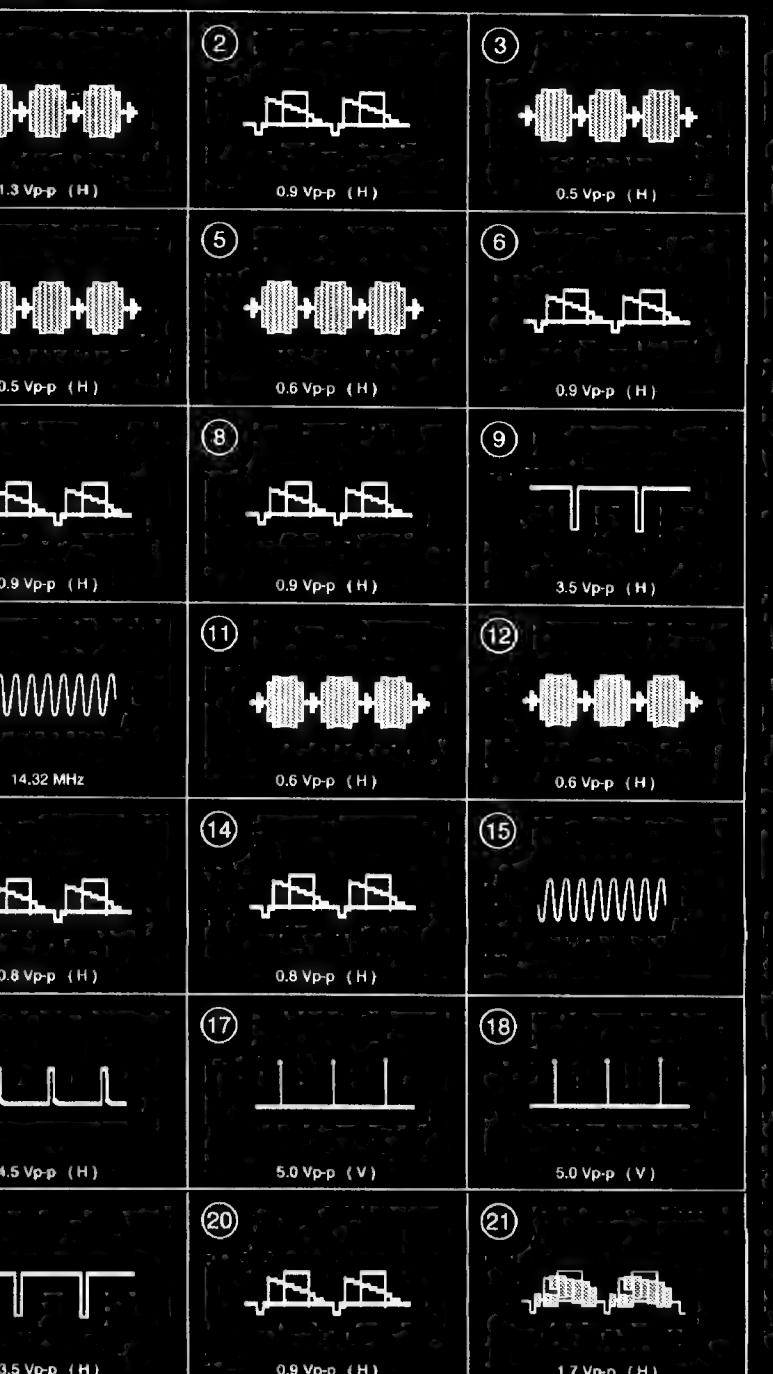
Pattern of the rear side.



P BOARD IC VOLTAGE LIST

		ALL VOLTAGES ARE IN V											
IC3200	1 *	6 GND	11 2.3	16 2.1	21 2.5	22 2.5	23 2.5	24 2.5	25 2.5	26 2.5	27 2.5	28 2.5	29 2.5
	2 *	7 1.5	12 2.4	17 2.5	22 2.5	23 2.5	24 2.5	25 2.5	26 2.5	27 2.5	28 2.5	29 2.5	30 2.5
	3 GND	8 *	13 1.0	18 5.0	23 2.3	24 2.3	25 2.3	26 2.3	27 2.3	28 2.3	29 2.3	30 2.3	31 2.3
	4 *	9 2.0	14 3.2	19 2.5	24 4.0	25 4.0	26 4.0	27 4.0	28 4.0	29 4.0	30 4.0	31 4.0	32 4.0
	5 *	10 1.9	15 2.7	20 2.5	21 2.5	22 2.5	23 2.5	24 2.5	25 2.5	26 2.5	27 2.5	28 2.5	29 2.5

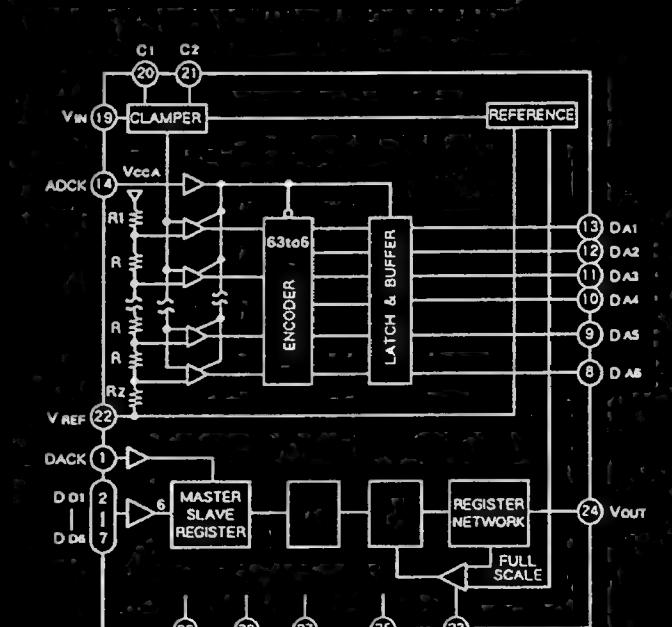
P BOARD WAVEFORMS



P BOARD TRANSISTOR VOLTAGE LIST

E	C	B
Q3201	2.6	GND
Q3202	3.8	9.0
Q3203	9.0	1.6
Q3204	9.0	2.6
Q3205	1.3	8.5
Q3206	1.3	8.5
Q3207	3.3	GND
Q3208	0.9	8.5
Q3209	2.3	1.5
Q3210	3.2	GND

P BOARD IC3202, IC3203 MB40176

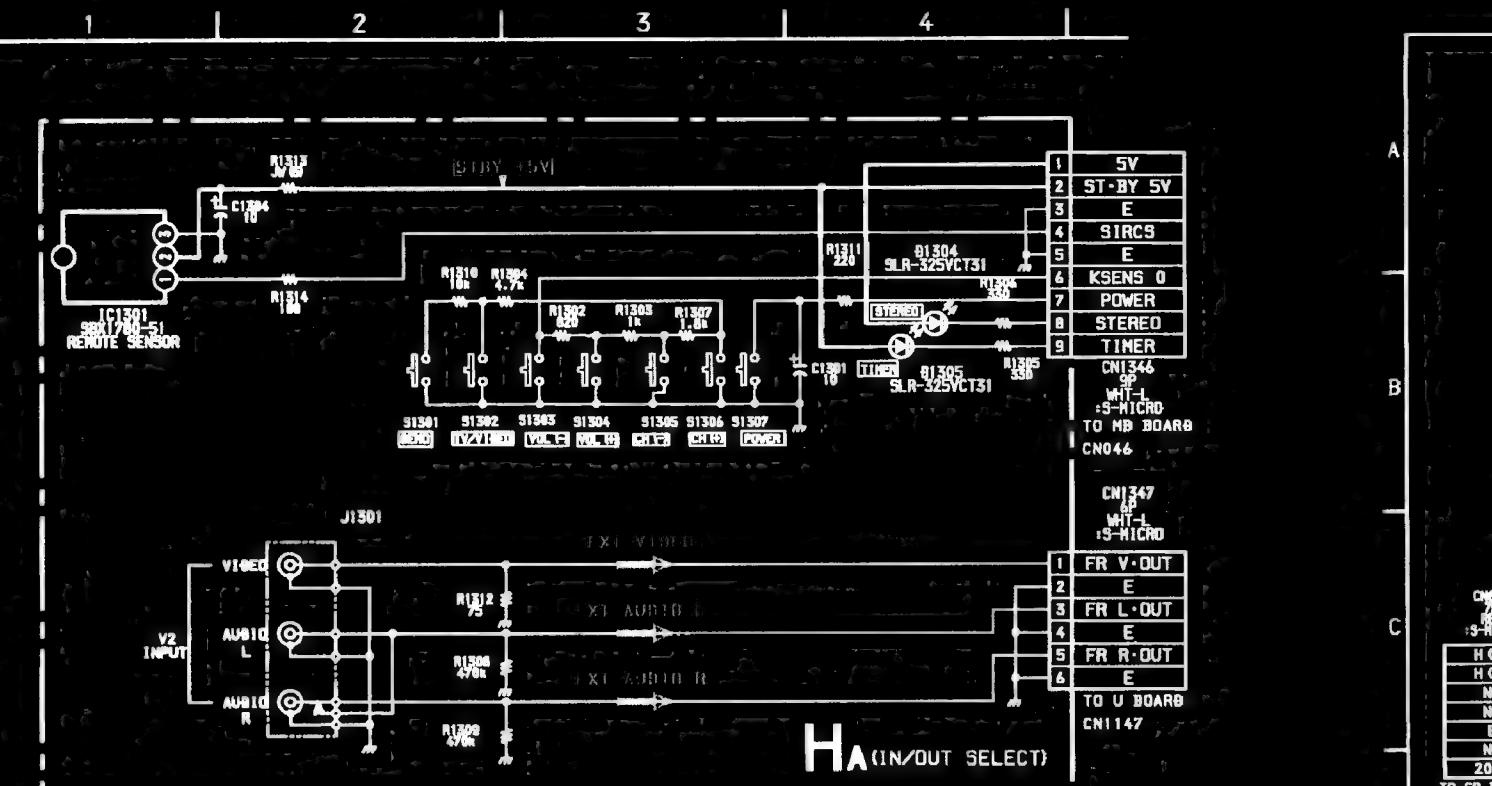


Schematic diagrams

P board

Schematic diagrams

EA boards



E BOARD IC VOLTAGE LIST

IC901	1 -6.3	4 3.9	7 4.8	10 4.0	13 -11.6
	2 6.3	5 7.7	8 2.5	11 0	14 2.0
	3 12.0	6 7.7	9 2.8	12 -12.0	

ALL VOLTAGES ARE IN V

IC902	1 0.2	4 5.2	7 0	10 4.0	13 0.2
	2 0	5 4.8	8 5.2	11 0	14 0
	3 12.0	6 5.2	9 5.0	12 GND	

IC903	1 3.0	4 11.6	7 7.6	10 7.6	13 11.2
	2 3.9	5 7.6	8 5.9	11 -11.1	14 11.2
	3 3.8	6 7.6	9 7.6	12 0.4	

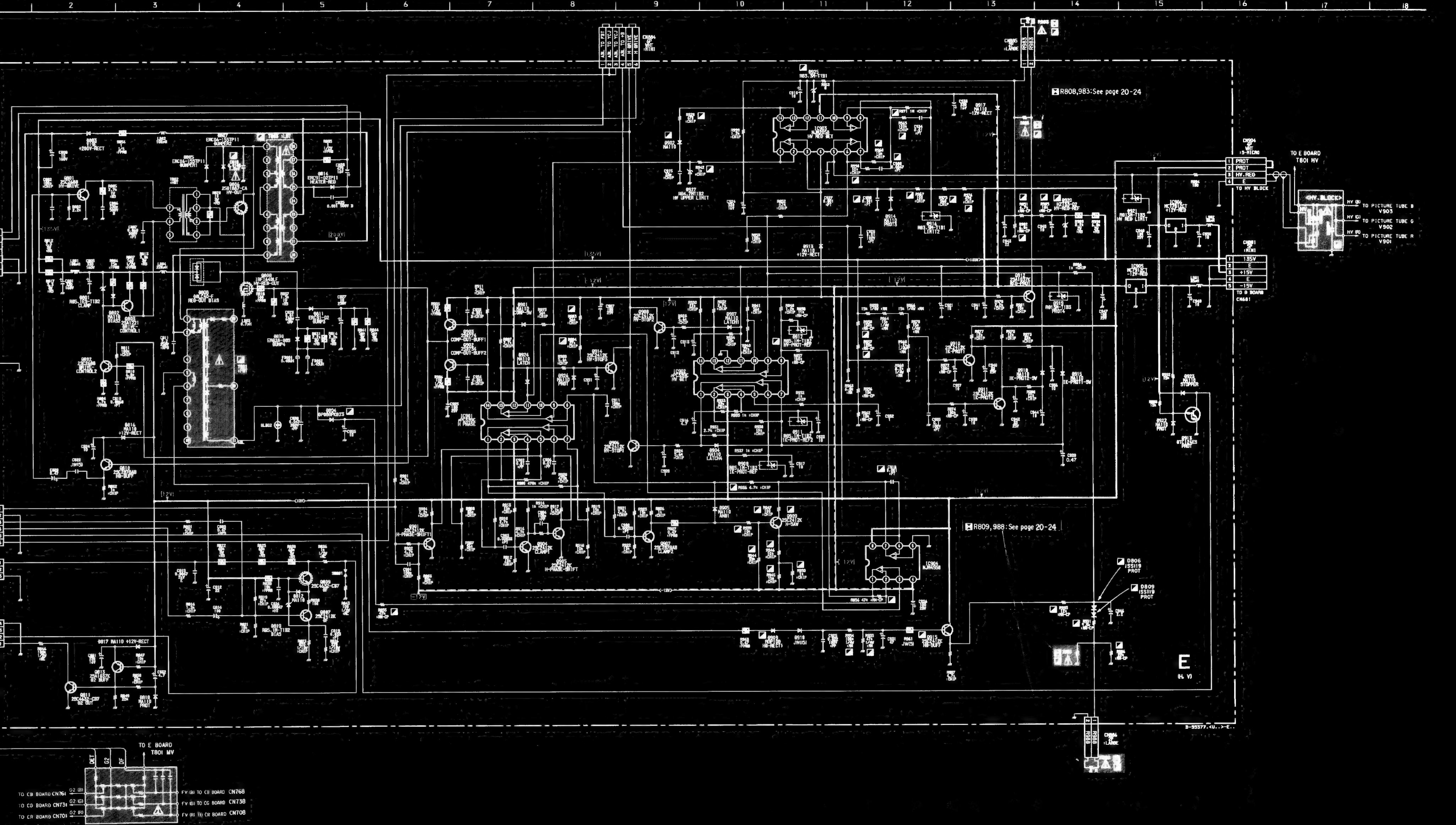
IC904	1 8.9	3 8.9	5 GND	7 2.2	
	2 8.9	4 -12.0	6 0.2	8 12.0	

IC905	1 -12.0	2 15.0	3 GND		
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IC906	1 12.0	2 15.0	3 GND		
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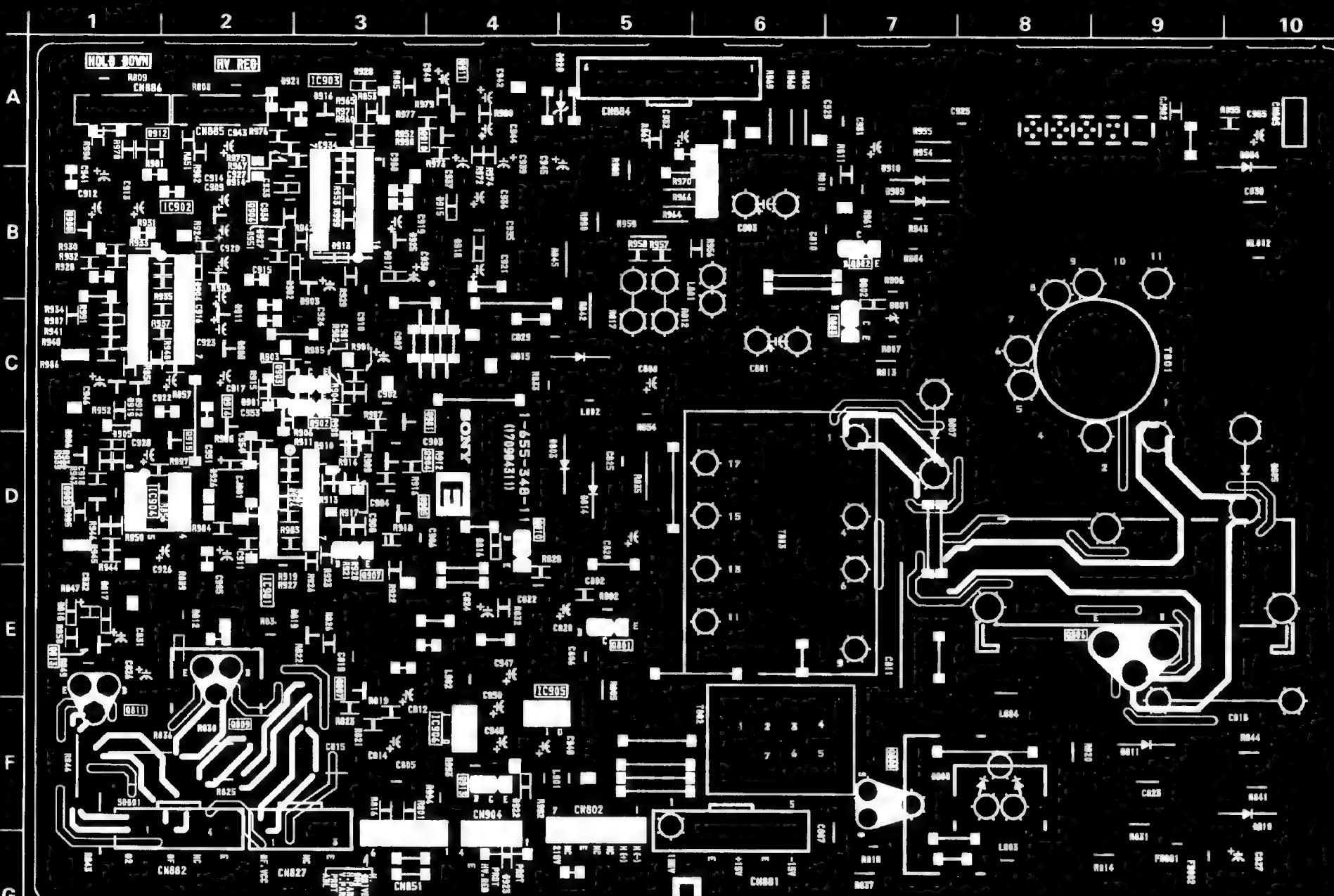
E BOARD TRANSISTOR VOLTAGE LIST

	E	C	B
Q801	GND	1067	-0.3
Q802	.2	1317	2.5
Q803	132.3	1068	131.7
Q806	51.9	1356	51.9
Q807	.2	11.6	3.3
Q809	11.9	354.0	12.3
Q810	.2	11.7	2.6
Q811	1.2	64.0	0
Q813	1.2	0	12.3
Q901	GND	3.9	0.3
Q902	1.9	-12.0	2.0
Q903	1.9	12.0	2.0
Q904	GND	0.6	0.6
Q905	GND	7.7	0.2
Q906	GND	2.6	0.2
Q907	GND	0.6	0.5
Q908	GND	2.6	0.2
Q909	0.2	2.2	-2.1
Q910	0.2	0.7	0.7
Q911	GND	0	0.7
Q912	10.7	GND	10.1
Q913	GND	3.4	-0.3
Q914	GND	2.6	-0.6
Q915	0	12.0	0
	S	D	G
Q808	0	51.9	1.9

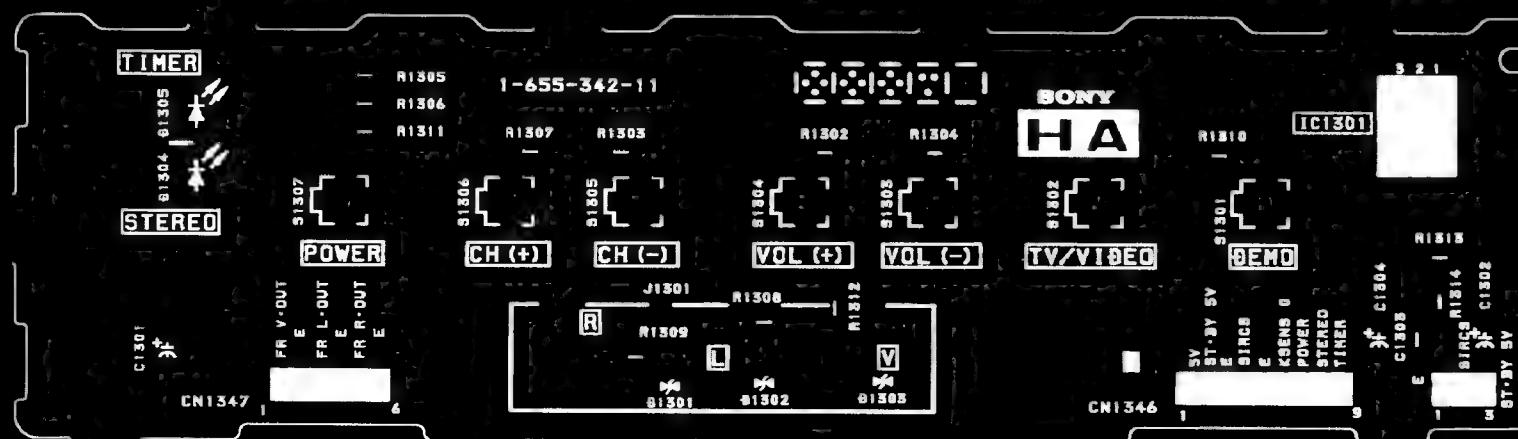


E [H. V] **HA** [IN/OUT SELECT]

- E BOARD -



- HA BOARD



| E BOARD

IC	
IC901	D - 3
IC902	B - 2
IC903	B - 3
IC904	D - 2
IC905	F - 4
IC906	F - 4
TRANSISTOR	
Q801	E - 5
Q802	B - 7
Q803	C - 7
Q806	E - 9
Q807	F - 3
Q808	F - 7
Q809	F - 2
Q810	D - 4
Q811	F - 1
Q813	E - 1
Q901	D - 3
Q902	C - 3
Q903	C - 3
Q904	D - 3
Q905	D - 3
Q906	B - 2
Q907	D - 3
Q908	B - 1
Q909	D - 1
Q910	A - 4
Q911	A - 4
Q912	A - 2
Q913	F - 4
Q914	D - 2
Q915	D - 2
DIODE	
D801	C - 7
D802	C - 7
D803	D - 5
D804	B - 10
D805	D - 10
D806	
D807	D - 7
D808	F - 8
D809	
D810	F - 10
D811	F - 9
D812	E - 2
D814	D - 5
D816	D - 4
D817	E - 1
D818	E - 1
D819	E - 3
D901	C - 2
D902	B - 3
D904	B - 2
D905	D - 1
D907	C - 1
D908	C - 2
D909	B - 7
D911	C - 2
D912	C - 1
D913	B - 3
D914	B - 3
D915	B - 4
D916	A - 3
D917	B - 3
D918	B - 4
D919	C - 1
D920	A - 5
D921	A - 3
D922	F - 4
D923	F - 4
D924	D - 3
D925	B - 3
D926	D - 2
D927	B - 2

NOTE

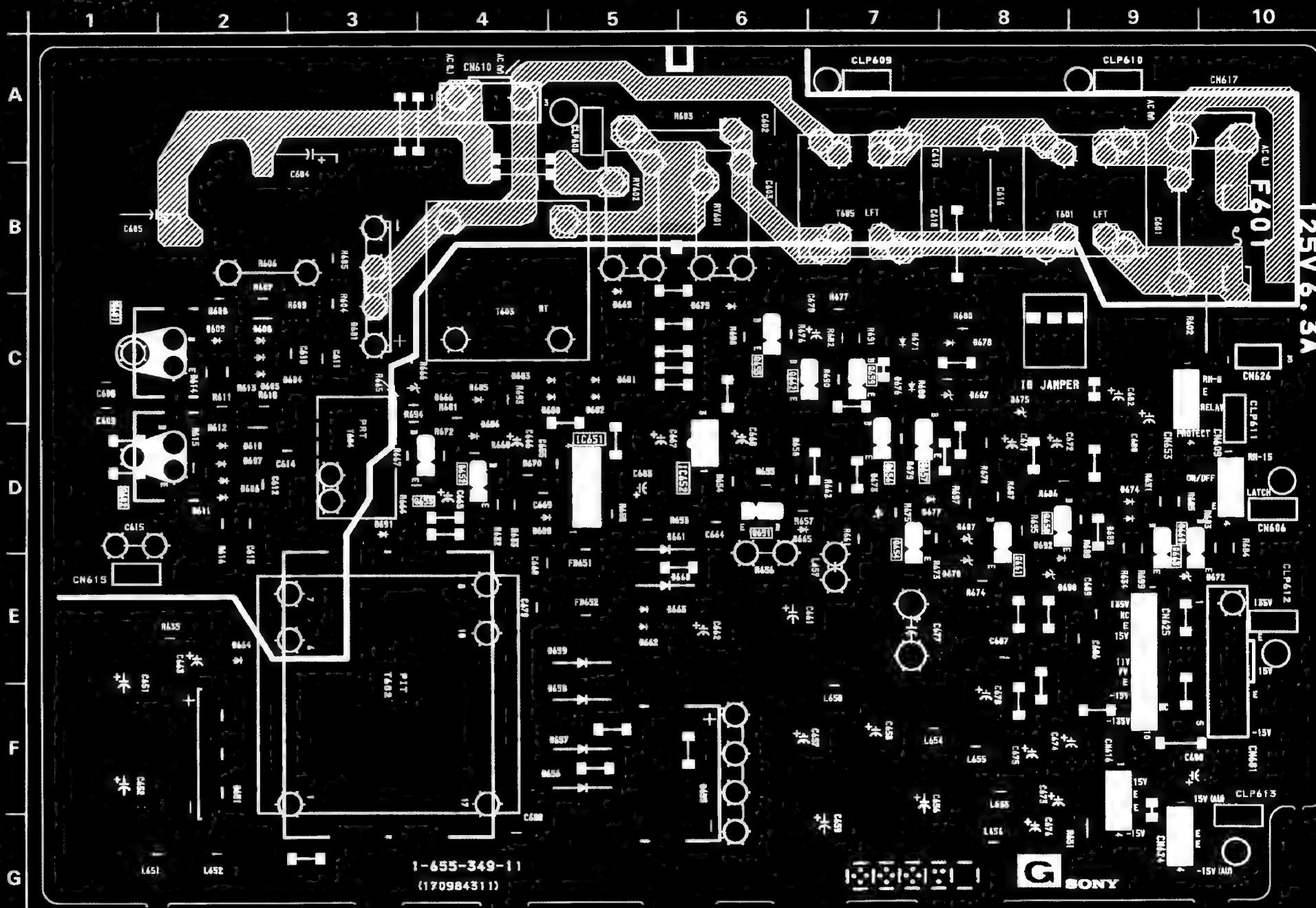
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

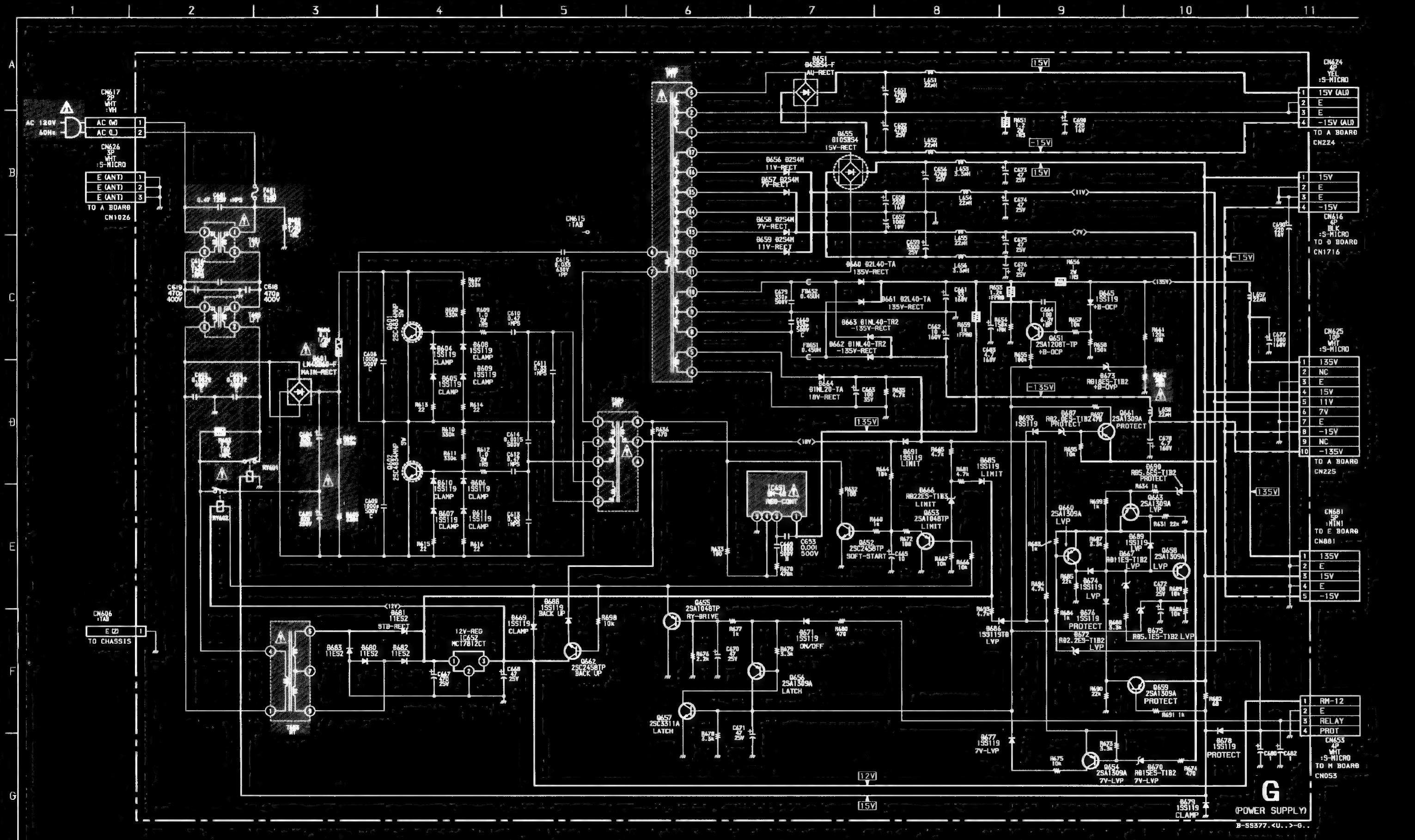
G [POWER SUPPLY]

- G BOARD

G BOARD

IC		
IC651	D - 5	D657 F - 5
IC652	D - 6	D658 F - 5
TRANSISTOR		
Q601	C - 1	D659 E - 5
Q602	D - 1	D660 E - 5
Q651	D - 6	D661 E - 5
Q652	D - 4	D662 E - 5
Q653	D - 4	D663 E - 5
Q654	E - 7	D664 E - 2
Q655	C - 6	D665 D - 6
Q656	D - 7	D666 C - 4
Q657	D - 7	D667 C - 8
Q658	D - 8	D669 C - 5
Q659	C - 7	D670 E - 8
Q660	E - 9	D671 C - 7
Q661	E - 8	D672 E - 9
Q662	C - 7	D673 D - 7
Q663	E - 9	D674 D - 9
DIODE		
D601	C - 3	D675 D - 8
D604	C - 2	D676 C - 7
D605	C - 2	D677 D - 7
D606	D - 2	D678 C - 8
D607	D - 2	D679 C - 6
D608	C - 2	D680 C - 5
D609	C - 2	D681 C - 5
D610	D - 2	D682 C - 5
D611	D - 2	D683 C - 5
D651	F - 2	D685 C - 4
D655	F - 6	D686 D - 4
D656	F - 5	D687 E - 8
		D688 D - 5
		D689 D - 9
		D690 E - 8
		D691 D - 3
		D693





G BOARD IC VOLTAGE LIST

ALL VOLTAGES ARE IN V

IC651	1 135.4	3 2.6	4 8.9	5 GND
IC652	1 22.0	2 GND	3 12.0	

G BOARD TRANSISTOR VOLTAGE LIST

	E	C	B
Q601	-1.8	0	-3.9
Q602	-11.85	-1.8	-12.03
Q651	13.55	0.2	135.4
Q652	13.0	GND	15.1
Q653	GND	15.1	0
Q654	15.7	-2.0	15.7
Q655	GND	0.2	0.8
Q656	2.7	0.2	2.7
Q657	GND	2.7	0.2
Q658	15.0	8.2	14.8
Q659	15.0	15.3	14.6
Q660	15.0	15.3	14.6
Q661	11.0	0.2	11.5
Q662	12.0	12.1	11.4
Q663	15.0	15.3	14.6

CN625

:S-MICRO

1 135V

2 NC

3 E

4 15V

5 11V

6 7V

7 E

8 -15V

9 NC

10 -135V

TO A BOARD

CN225

CN681

:HINI

1 135V

2 E

3 15V

4 E

5 -15V

TO E BOARD

CN881

1 135V

2 E

3 15V

4 E

5 -15V

TO M BOARD

CN053

1 RM-12

2 E

3 RELAY

4 PROT

CNASS

:S-MICRO

1 135V

2 E

3 15V

4 E

5 -15V

(POWER SUPPLY)

G

CLAMP

155119

135V

12V

15V

11V

7V

E

15V

11V

7V

E

135V

12V

15V

11V

7V

E

15V

11V

7V

E

15V

E

135V

12V

15V

11V

7V

E

15V

11V

7V

E

15V

E

135V

12V

15V

11V

7V

E

15V

11V

7V

E

15V

E

135V

12V

15V

11V

7V

E

15V

11V

7V

E

15V

E

135V

12V

15V

11V

7V

E

15V

11V

7V

E

15V

E

135V

12V

15V

11V

7V

E

15V

11V

7V

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15V

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135V

12V

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11V

7V

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15V

11V

7V

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15V

E

135V

12V

15V

11V

7V

E

15V

11V

7V

E

15V

E

135V

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7V

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15V

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135V

12V

15V

11V

7V

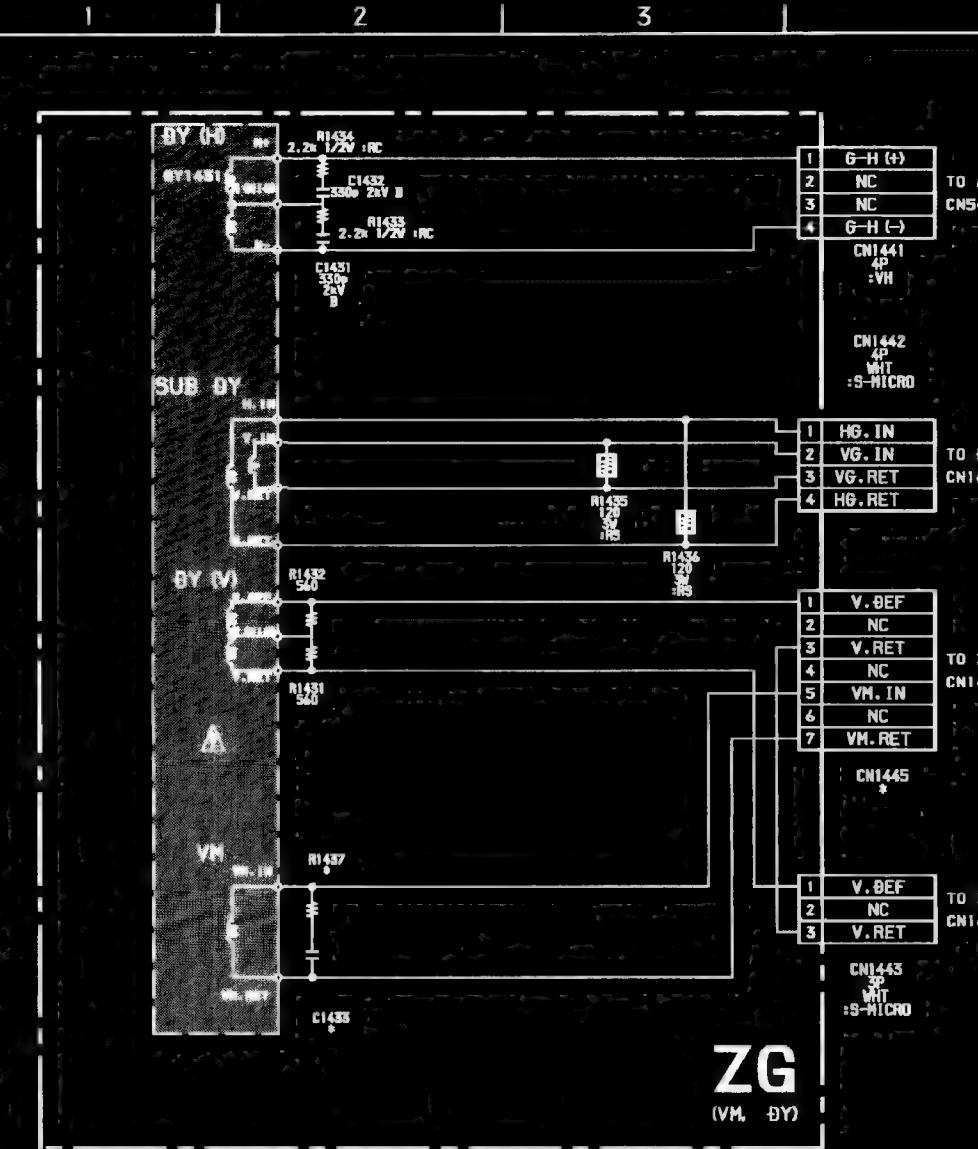
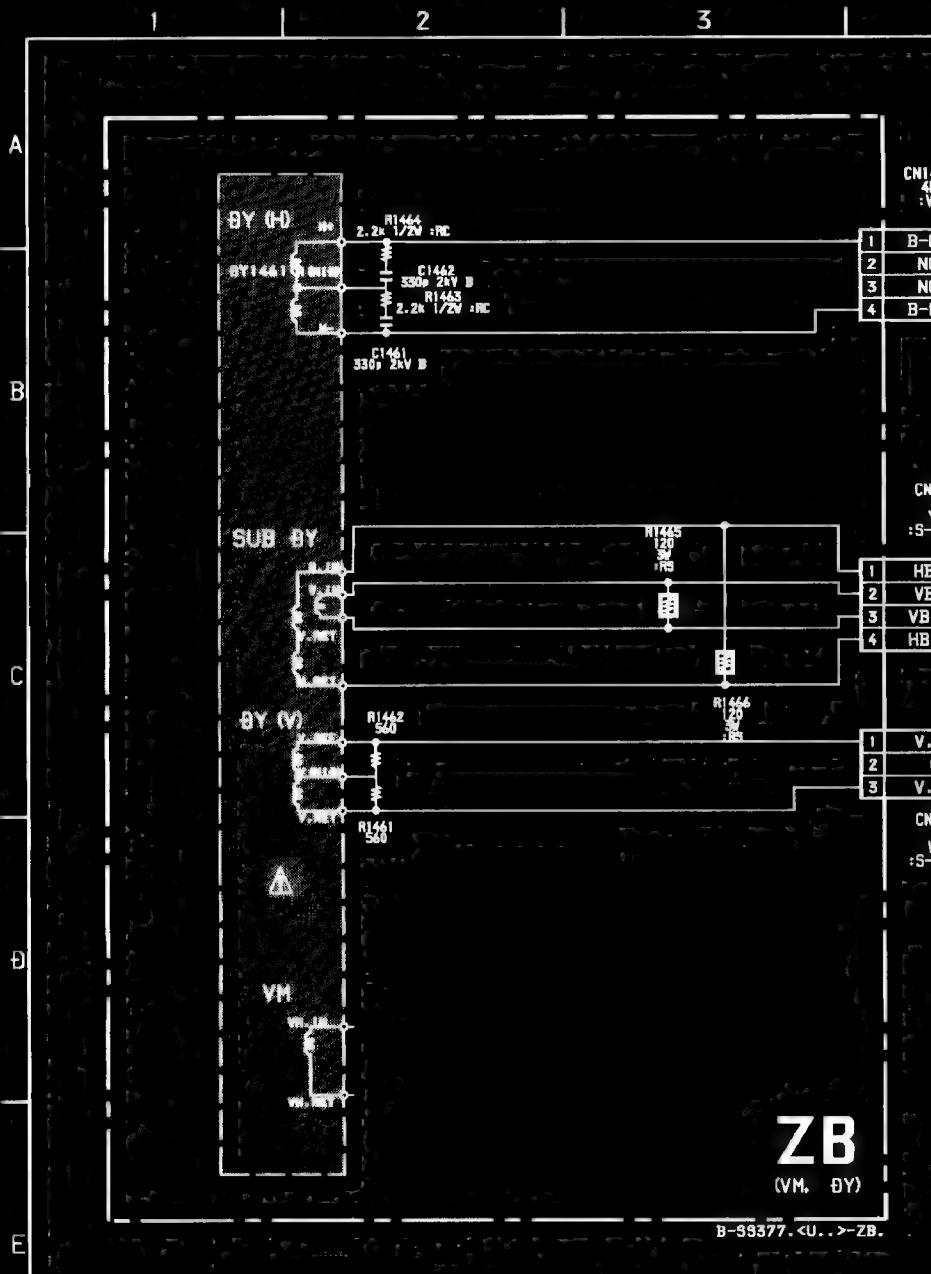
E

15V

11V

7V

</div



ZG BOARD * MARK

Ref.No.	KP-41T15(U/C)	KP-46S15(U/C)	KP-53S15(U/C)
C1433	100p		
CN1445	7P	3P	3P
R1437	1k		

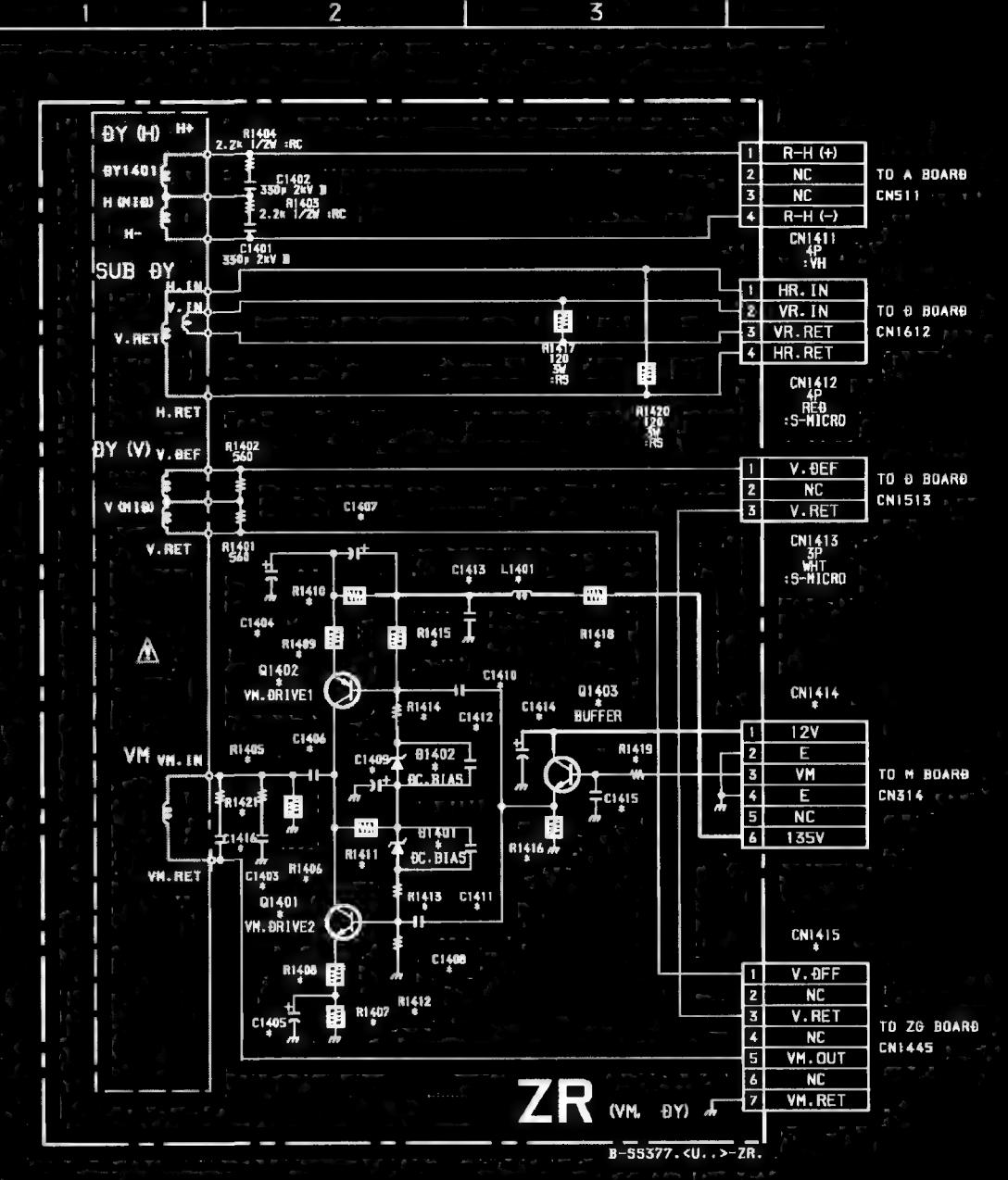
ZR BOARD * MARK

Ref.No.	KP-41T15(U/C)	KP-46S15(U/C)	KP-53S15(U/C)
C1403	220p		
C1404	33 160V		
C1405	100 25V		
C1406	0.1		
C1407	100 25V		
C1408	0.0047		
C1409	2.2 160V		
C1410	0.0047		
C1411	0.001		
C1412	0.001		
C1413	0.0047		
C1414	330 16V		
C1415	10p		
C1416	100p		
CN1414	6P		
CN1415	7P	3P	3P
D1401	RD39ES-T1B		
D1402	RD39ES-T1B		
L1401	JW SMM		
Q1401	2SC4793		
Q1402	2SA1837		
Q1403	2SD774-T-4		
R1405	1k		
R1406	560 3W		
R1407	39		
R1408	1.8		
R1409	1.8		
R1410	39 1/2W		
R1411	1k		
R1412	560		
R1413	18k		
R1414	18k		
R1415	560		
R1416	120 2W		
R1418	0.47		
R1419	220		
R1421	1k		

BOARD TRANSISTOR VOLTAGE LIST

	E	C	B
1401	0	-0.5	0
1402	-1.0	-0.5	-0.9
1403	4.8	12.0	5.4

ALL VOLTAGES ARE IN V



ZR™

ZB

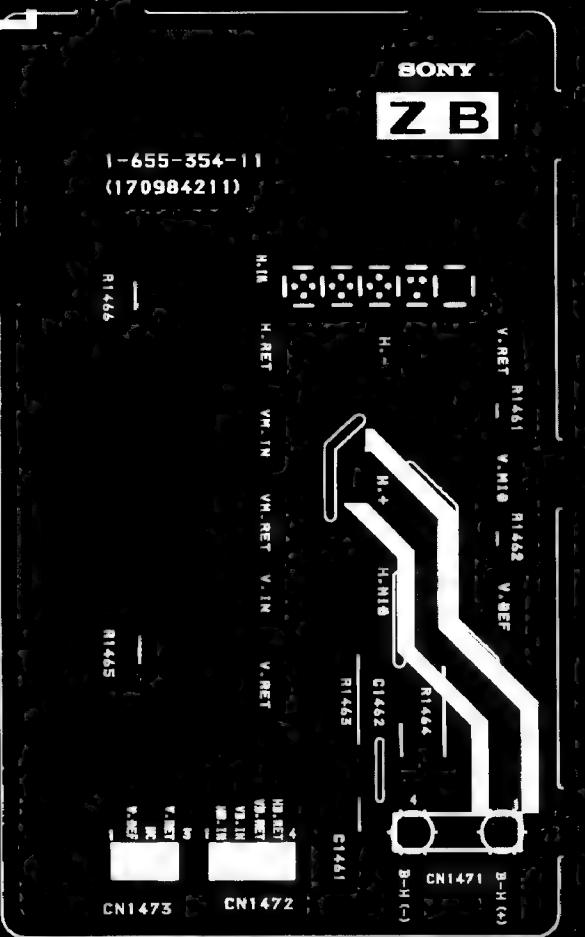
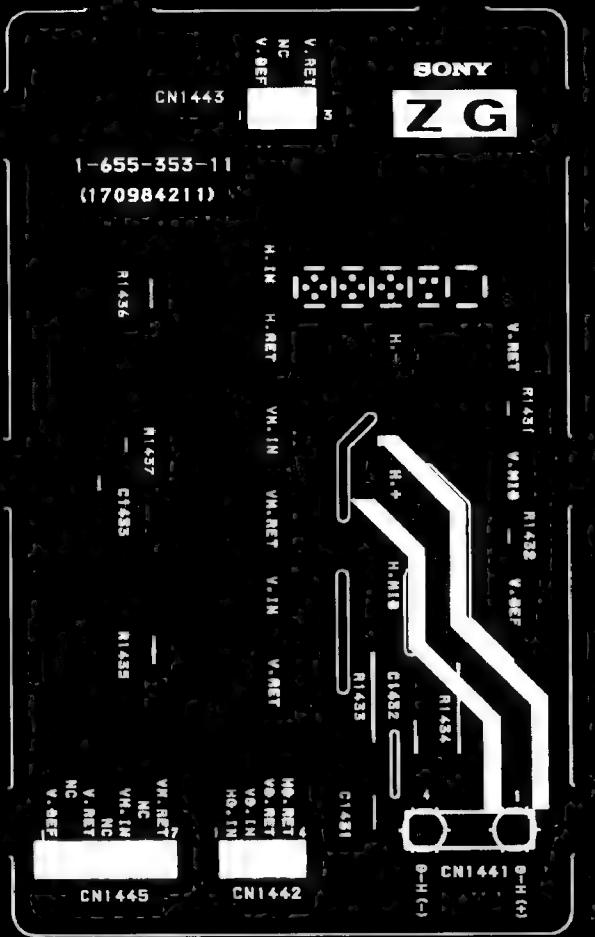
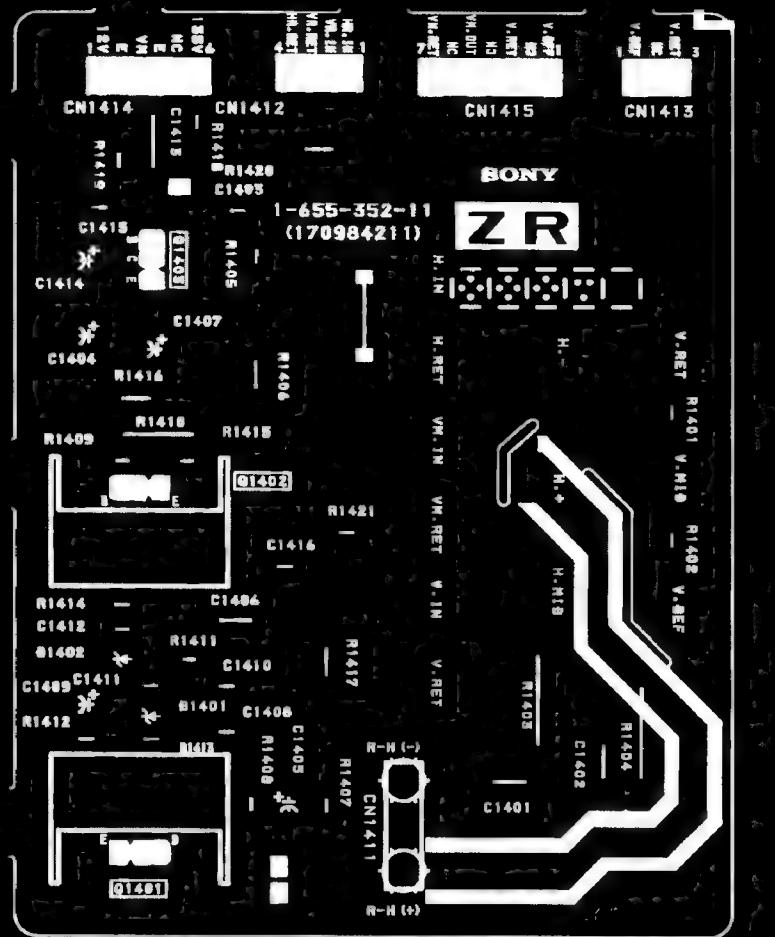
[VM, DY]

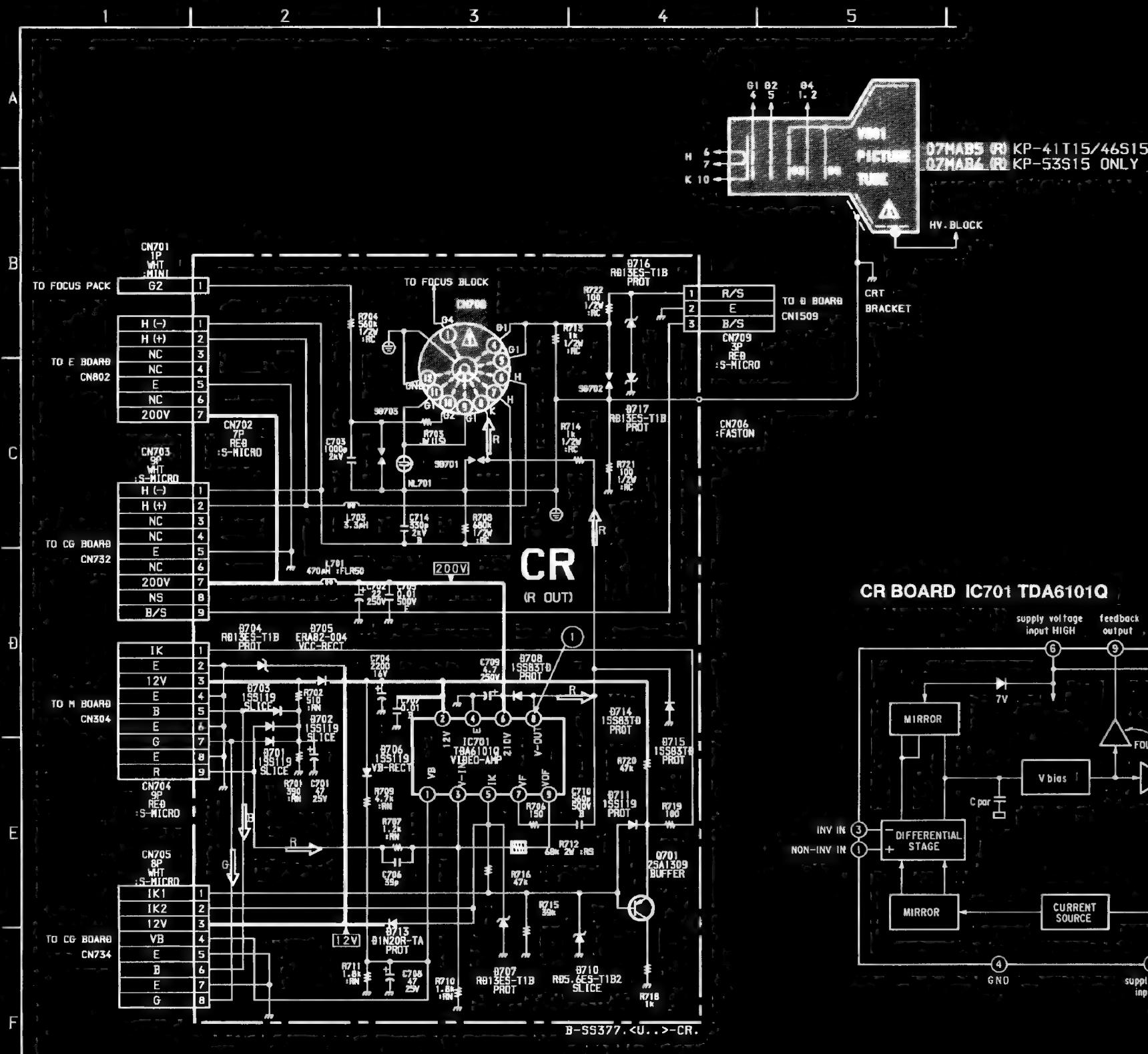
ZG

[VM, DY]

ZR

[VM, DY]

- ZB BOARD -**- ZG BOARD -****- ZR BOARD -**



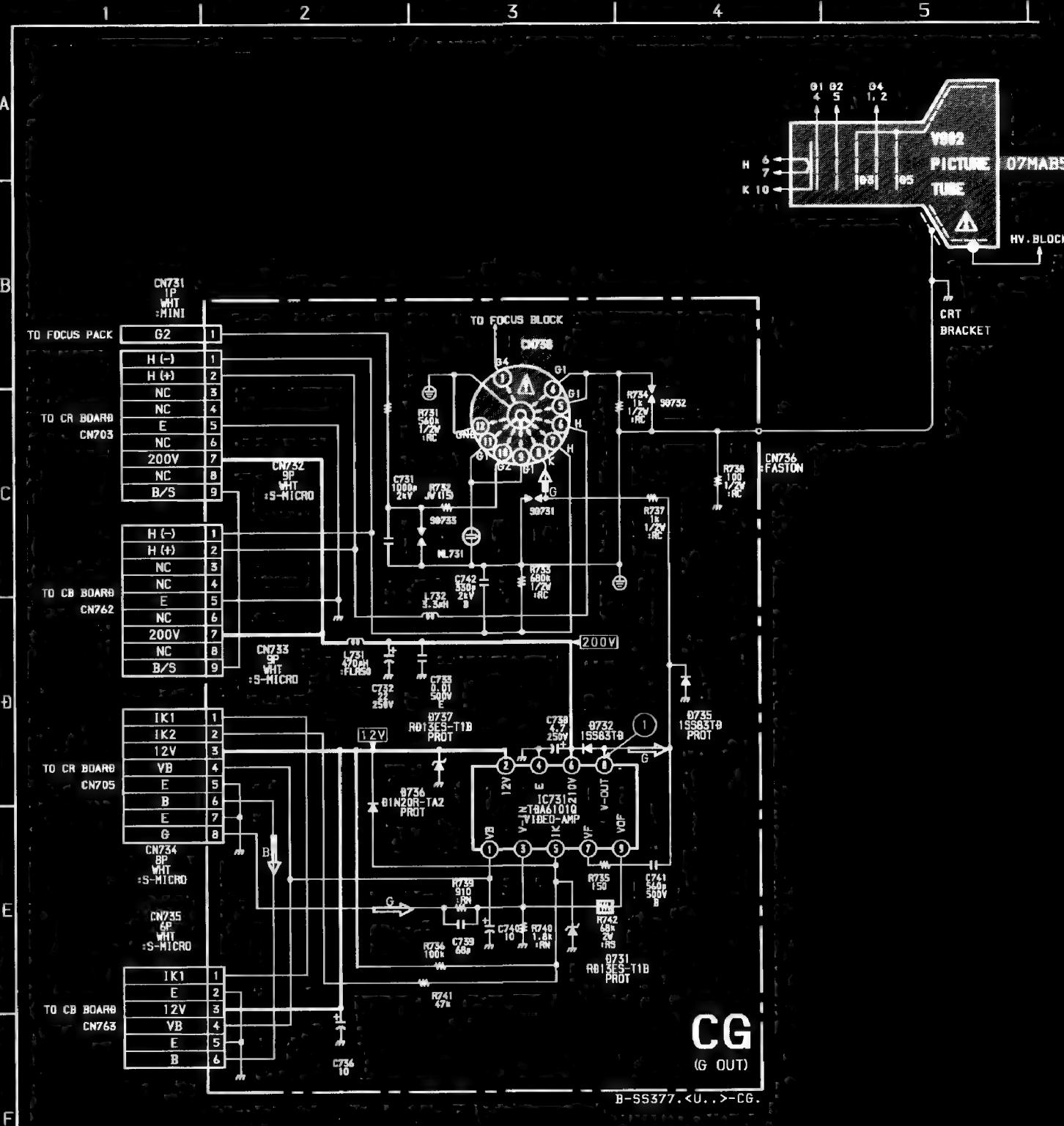
CR BOARD IC VOLTAGE LIST

IC701	1	3.2	3	3.0	5	8.2	7	1715	9	1701
	2	12.0		4	GND		6	200		8 1716

CR BOARD TRANSISTOR VOLTAGE LIST

	E	C	B
Q701	3.3	0.3	3.7

• CR BOARD WAVEFORMS

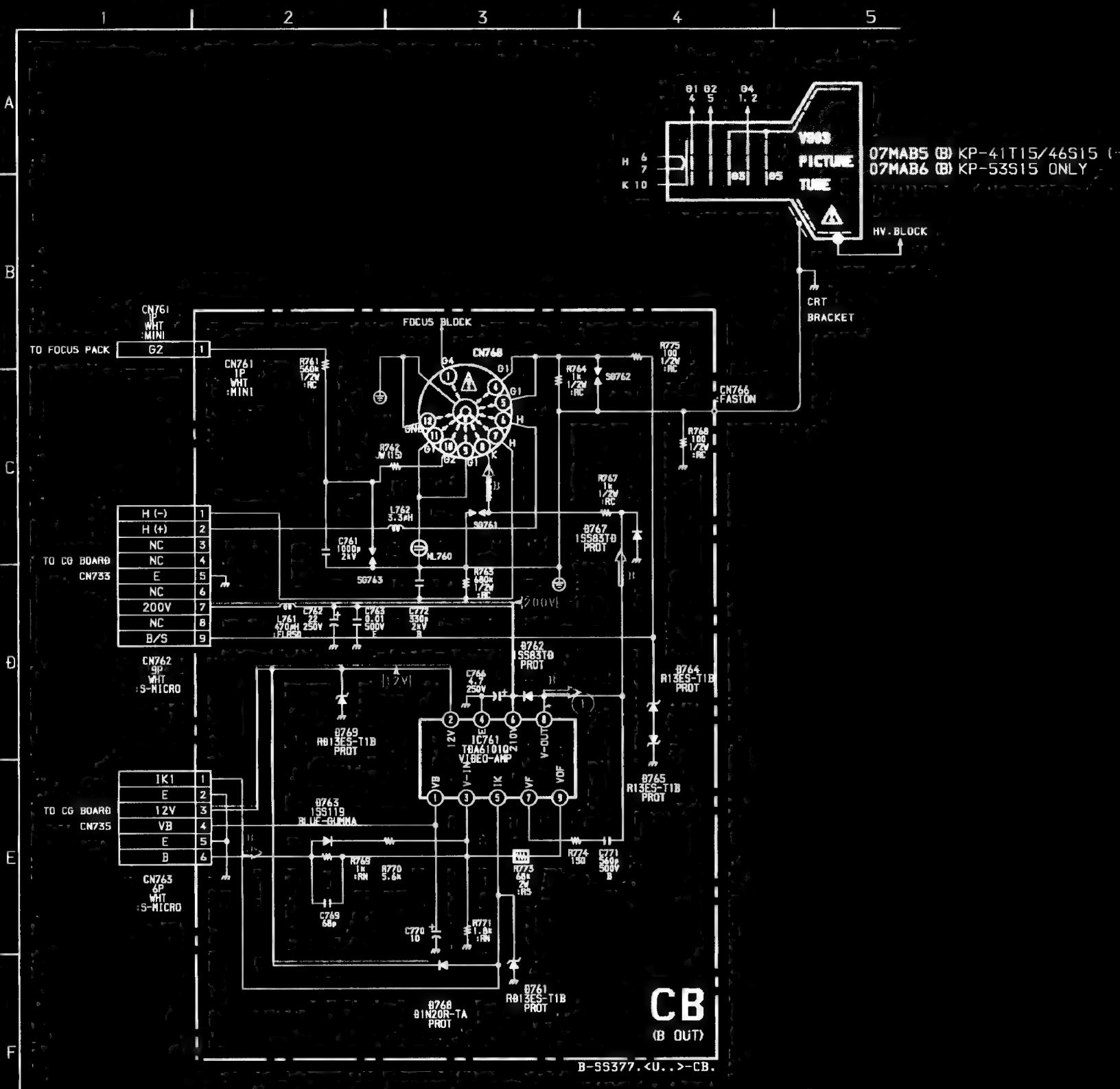


CG BOARD IC VOLTAGE LIST

IC731	1	3.1	3	2.9	5	9.6	7	1738	9	1724
	2	12.0		4	GND		6	200		8 1754

• CG BOARD WAVEFORMS

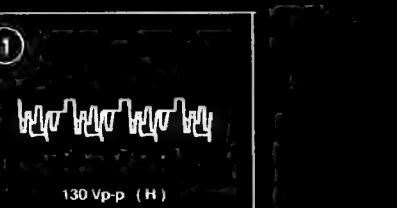




CB BOARD IC VOLTAGE LIST

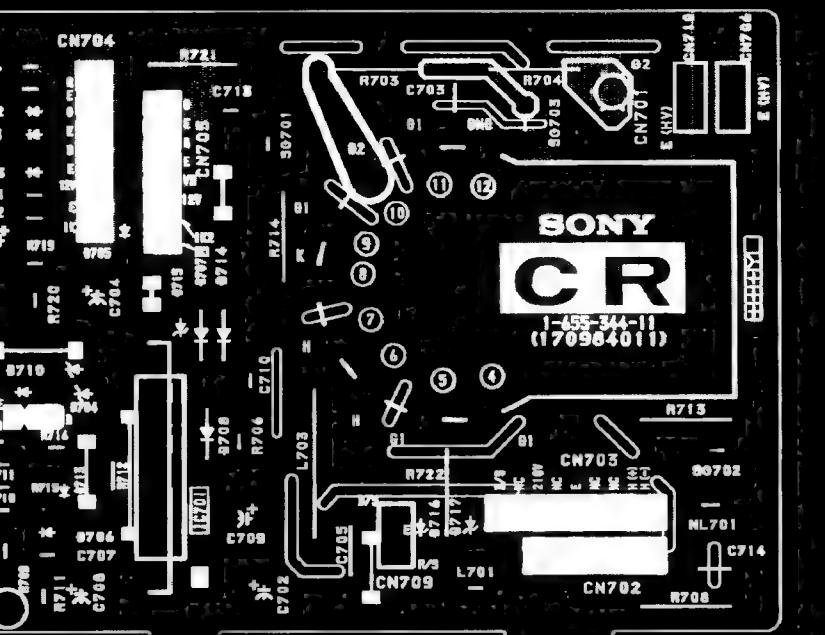
IC761	1 3.1	3 3.0	5 4.3	7 147.2	9 1459
	2 12.0	4 GND	6 200	8 149.7	

CB BOARD WAVEFORMS

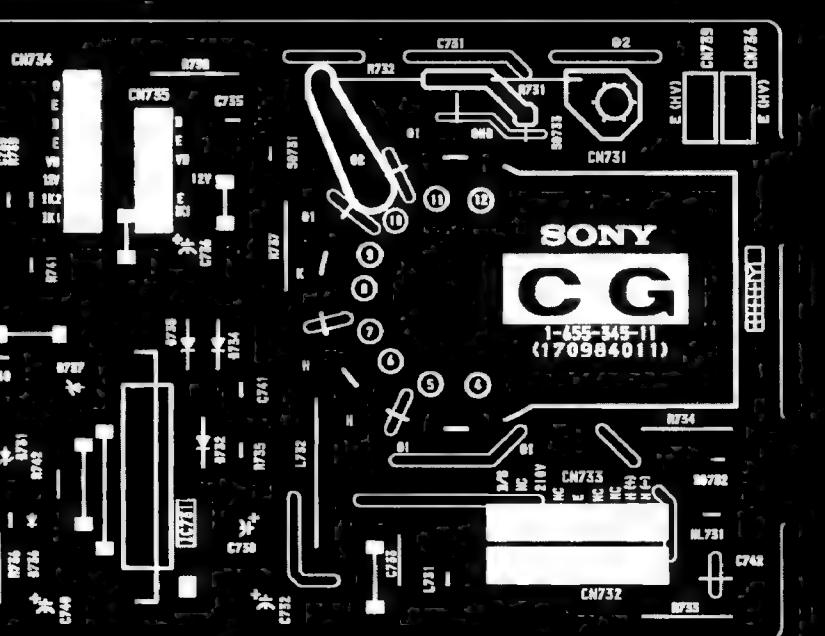


CR [R OUT] **CG** [G OUT] **CB** [B OUT]

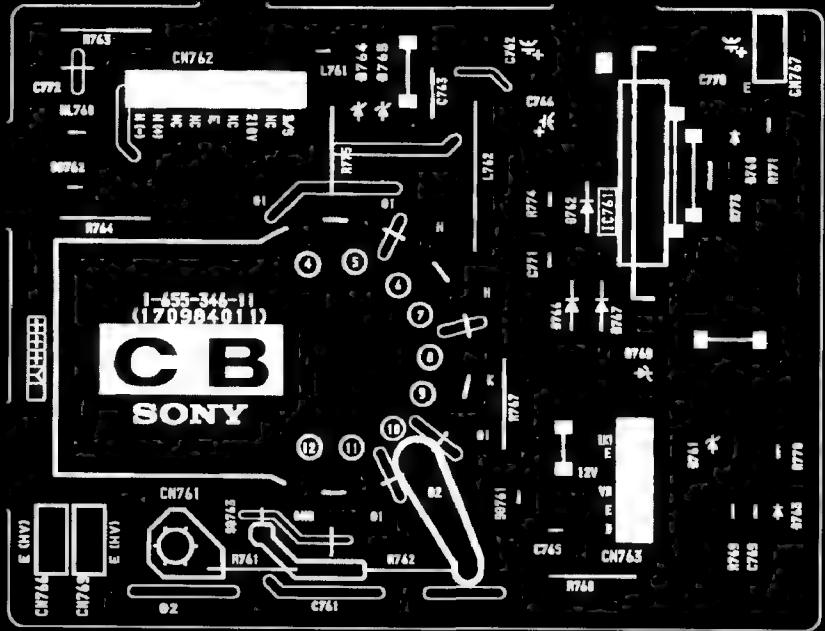
R BOARD —



EG BOARD -



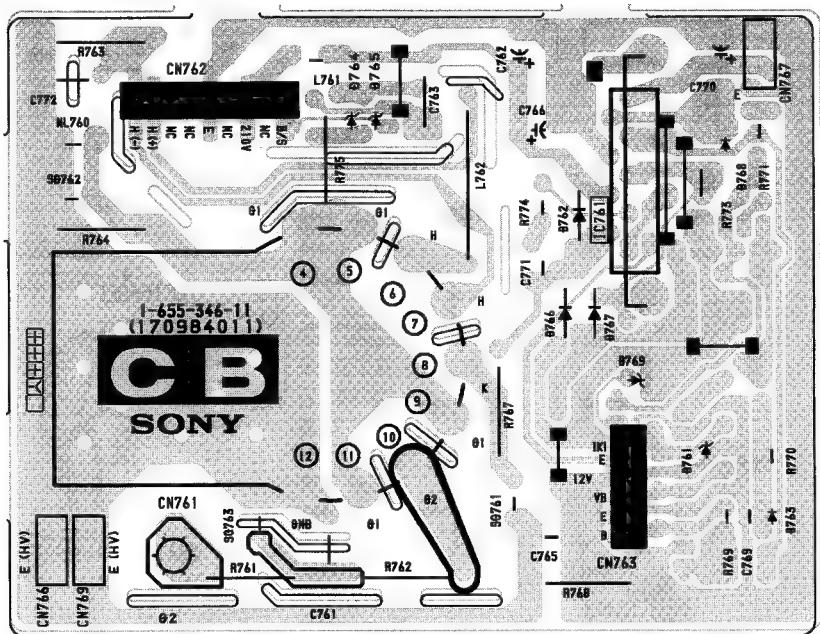
- CB BOARD -



Schematic diagrams

CB board

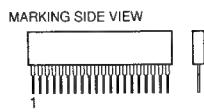
- CB BOARD -



Schematic diagrams

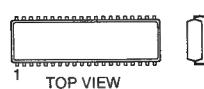
4-4. SEMICONDUCTORS

CAT51C262-ZS
MSM51C262-ZS



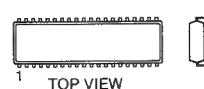
24pin SIP

CXA1477AS
CXA1855S



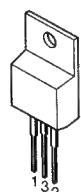
48pin DIP

CXP85112B-SX377
CXP85332A-SX377



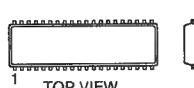
64pin DIP

LM7912CT
NJM7905FA
MC7905CT



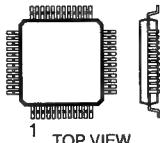
M5218AP

ST24C01CB1
ST24C04CB1
UPC358C



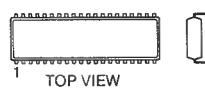
8pin DIP

MB3512PFQ



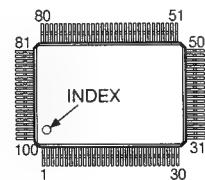
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MB40176PF-G-BND-EF

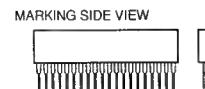


16pin DIP

MB86144BPF-G-BND

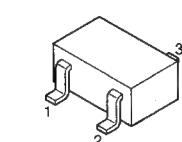


MN1280-S

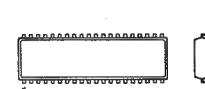


3pin SIP

MN1382S

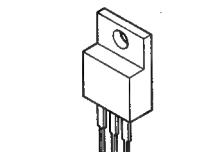


NJM2058D

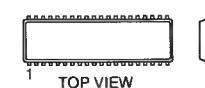


14pin DIP

NJM7805FA
NJM7812FA
NJM78M09FA
TA7805S
TA7812S

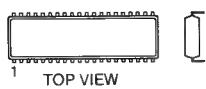


PA0053B
Z8622812PSC



18pin DIP

PM0002B

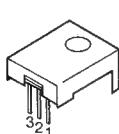


42pin DIP

PQ05RF1
PQ09RA1

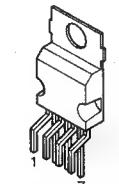


SBX1780-51

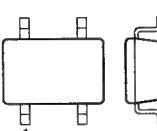


MARKING SIDE VIEW

STV9379

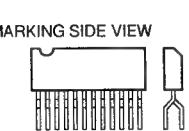


TC7SU04F



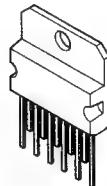
5pin CHIP

TDA6101Q

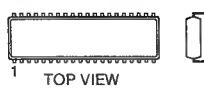


9pin ZIP

TDA7265

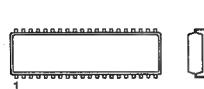


TDA8424



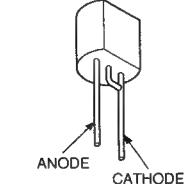
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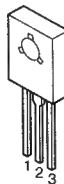


14pin DIP

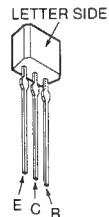
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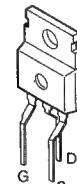
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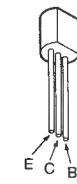
DTC323TS
2SA1175-HFE
2SC2785-HFE



IRF1640LF



2SA1013-R-TPE6
2SA1208-S



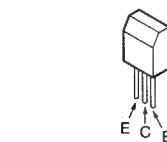
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2SC1623-L5L6
2SD601A-Q



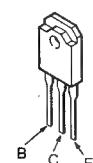
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2SB733-34
2SD774-34



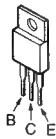
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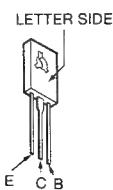
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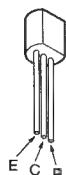
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2SC4793
2SD2348 (LBSONY-2)



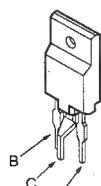
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2SC2688-LK



2SC2878-AB



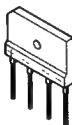
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2SD1887-CA



2SC4834M



D10SBS4-F
D4SBS4-F
LN4SB60-F



D1N20R
ERA85-009
ERC91-02TP11

RD10ESB2
RD11ESB2
RD13ESB2
RD15ESB2
RD18ESB2
RD2.0ESB2
RD2.2ESB2

RD22ESB3
RD24ESB
RD3.3ESB2
RD3.9ESB2
RD33ESB1
RD39ESB2
RD5.1ESB1
RD5.1ESB2
RD5.6ESB1
RD5.6ESB2
RD8.2ESB2
RD9.1ESL
11ES2
1SS119-25

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D1NL40-TR2
D2L40-TA
EL1Z
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GP08D
RGPO2-20EL-6394
1SS83

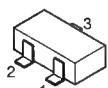
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ANODE

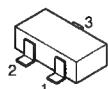
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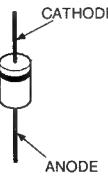
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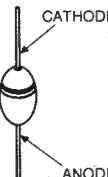
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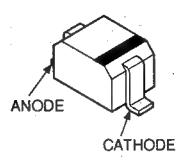
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ERC91-02
RU-1C



ERC38-06
V09G

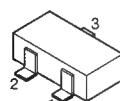


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MA110
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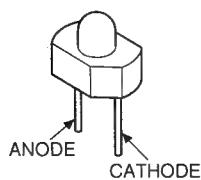


RD13M-B3

RD3.3M-B1
RD3.9M-B1
RD4.7M-B2
RD5.1M-B2
RD5.6M-B2



SLR-325VCT31



SECTION 5 EXPLODED VIEWS

NOTE :

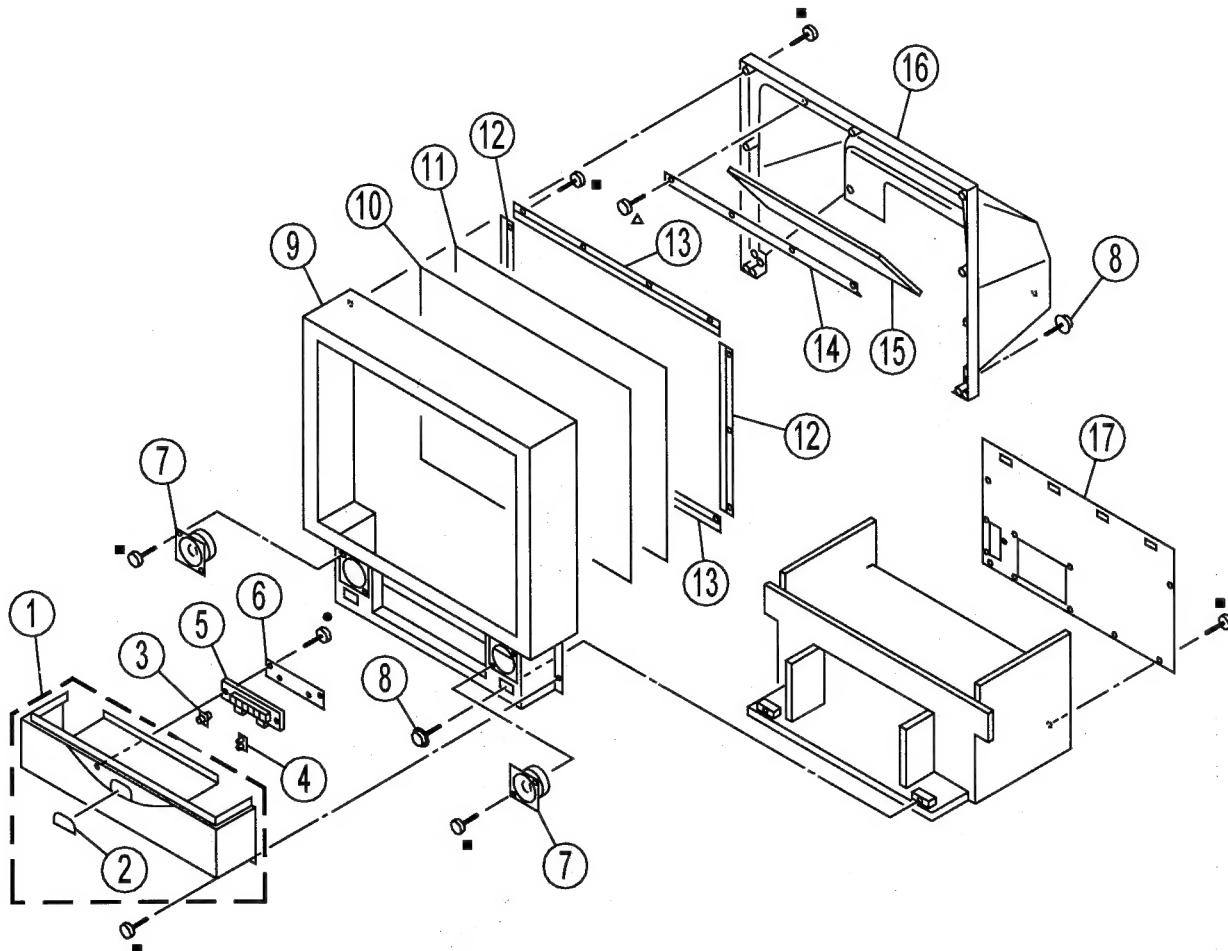
- Items with one part number and one description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a callout number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. COVER (KP-41T15)

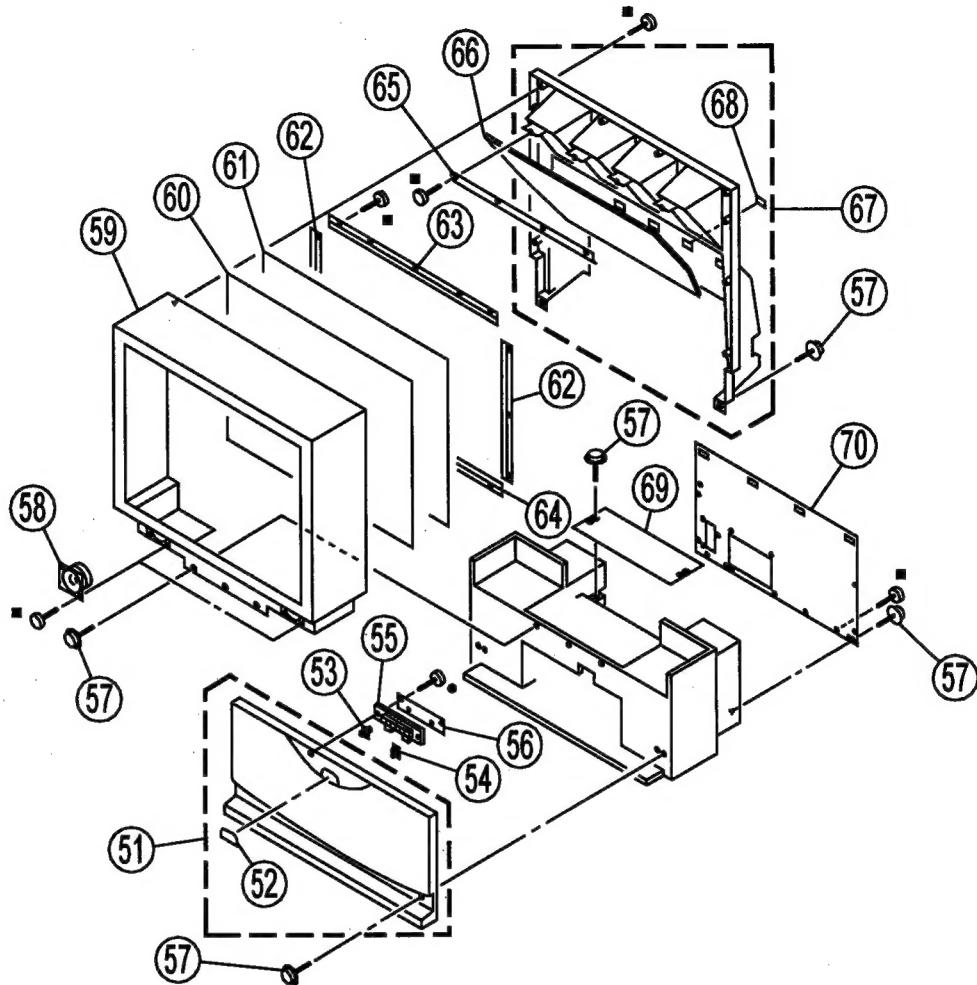
● : 7-685-648-79	+ BVTP 3×12
■ : 7-685-663-79	+ BVTP 4×16
Δ : 7-685-660-79	+ BVTP 4×10



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4032-545-1	PANEL ASSY, CONTROL		2	11	4-047-943-11	PLATE (F), DIFFUSION
2	4-048-000-01	DOOR, CONTROL		12	4-036-092-01	HOLDER (S), SCREEN	
3	4-047-999-01	FILTER, REMOTE		13	4-036-091-31	HOLDER (L), SCREEN	
4	4-047-998-01	GUIDE, LIGHT, LED		14	*4-037-351-01	HOLDER, MIRROR	
5	4-048-001-01	BUTTON, MULTI		15	4-047-861-01	MIRROR (41), REFLECTION	
6	*A-1372-099-A	HA BOARD, COMPLETE		16	*X-4032-607-1	COVER ASSY, MIRROR	
7	1-504-785-11	SPEAKER (10CM)		17	*4-047-837-01	PLATE (41), REAR	
8	4-041-164-11	SCREW (4X20), TAPPING					
9	X-4032-546-1	BEZNET ASSY					
10	4-034-053-01	PLATE (L), DIFFUSION					

5-2. COVER (KP-46S15/53S15)

● : 7-685-648-79 + BVTP 3x12
■ : 7-685-663-79 + BVTP 4x16



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-4032-614-1	GRILLE ASSY, SPEAKER		152	64	*4-048-159-21	HOLDER (L), SCREEN (KP-46S15)
52	4-048-000-01	DOOR, CONTROL			64	*4-048-159-31	HOLDER (L), SCREEN (KP-53S15)
53	4-047-999-01	FILTER, REMOTE		65	4-036-092-01	HOLDER (S), SCREEN	
54	4-047-998-01	GUIDE, LIGHT, LED		66	4-048-181-01	MIRROR (53), (KP-53S15)	
55	4-048-001-01	BUTTON, MULTI			4-048-182-01	MIRROR (46'), (KP-46S15)	
56	*A-1372-099-A	HA BOARD, COMPLETE		67	*X-4032-619-1	COVER ASSY, MIRROR (KP-46S15)	
57	4-041-164-11	SCREW (4X20), TAPPING			*X-4032-620-1	COVER ASSY, MIRROR (KP-53S15)	168
58	1-504-785-11	SPEAKER (10CM)		68	4-048-150-01	CAP, HOLE	
59	X-4032-617-1	BEZNET ASSY (KP-46S15)		69	4-048-160-01	PLATE, SHIELD (KP-46S15)	
	X-4032-618-1	BEZNET ASSY (KP-53S15)			4-048-161-01	PLATE, SHIELD (KP-53S15)	
60	4-036-466-11	PLATE (L), DIFFUSION (KP-53S15)		70	*4-048-168-01	PLATE, REAR (KP-53S15)	
	4-037-360-11	PLATE (L), DIFFUSION (KP-46S15)			*4-048-169-01	PLATE, REAR (KP-46S15)	
61	4-036-469-11	PLATE (F), DIFFUSION (KP-53S15)					
	4-048-205-11	PLATE (F), DUPFUSION (KP-46S15)					
62	*4-048-152-01	HOLDER (S), SCREEN (KP-46S15)					
	*4-048-152-11	HOLDER (S), SCRBN (KP-53S15)					
63	*4-048-159-01	HOLDER (L), SCREEN (KP-46S15)					
	*4-048-159-11	HOLDER (L), SCREEN (KP-53S15)					

E D

Les composants identifiés par une trame et une marque **Δ** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **Δ** are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R995	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	C1802	1-126-964-11	ELECT	10MF 20% 50V
R996	1-208-814-11	METAL CHIP	22K 0.50% 1/10W	C1803	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
R997	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C1805	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
R998	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C1806	1-163-127-00	CERAMIC CHIP	270PF 5% 50V
R999	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	C1807	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
<SPARK GAP>				C1808	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
SG801	1-519-422-11	GAP, SPARK		C1809	1-126-940-11	ELECT	330MF 20% 16V
<TRANSFORMER>				C1810	1-126-940-11	ELECT	330MF 20% 16V
T801 Δ	8-598-939-00	TRANSFORMER ASSY, FLYBACK (MX-2631/A4S)		C1811	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
T802	1-437-209-11	TRANSFORMER, HORIZONTAL DRIVE		C1812	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
T803 Δ	1-427-980-11	TRANSFORMER, FERRITE (LOT)		C1813	1-163-275-11	CERAMIC CHIP	0.001MF 5% 50V
*****				C1814	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
*A-1346-296-A D BOARD, COMPLETE				C1816	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
*****				C1817	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
4-382-854-11 SCREW (M3X10), P, SW (+)				C1818	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
<CAPACITOR>				C1819	1-124-903-11	ELECT	1MF 20% 50V
C1502	1-126-768-11	ELECT	2200MF 20% 16V	C1820	1-163-005-11	CERAMIC CHIP	470PF 10% 50V
C1503	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C1821	1-124-902-00	ELECT	0.47MF 20% 50V
C1504	1-126-768-11	ELECT	2200MF 20% 16V	C1822	1-163-005-11	CERAMIC CHIP	470PF 10% 50V
C1505	1-136-177-00	FILM	1MF 5% 50V	C1823	1-124-903-11	ELECT	1MF 20% 50V
C1506	1-102-228-00	CERAMIC	470PF 10% 500V	C1824	1-124-903-11	ELECT	1MF 20% 50V
C1507	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C1825	1-126-967-11	ELECT	47MF 20% 50V
C1508	1-163-117-00	CERAMIC CHIP	100PF 5% 50V	C1826	1-126-967-11	ELECT	47MF 20% 50V
C1509	1-124-122-11	ELECT	100MF 20% 50V	C1827	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
C1510	1-137-398-11	FILM	0.068MF 10% 100V	C1828	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
C1511	1-137-423-11	FILM	0.15MF 10% 100V	C1829	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
C1512	1-137-423-11	FILM	0.15MF 10% 100V	C1830	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
C1513	1-163-109-00	CERAMIC CHIP	47PF 5% 50V	C1831	1-126-940-11	ELECT	330MF 20% 16V
C1514	1-163-031-11	CERAMIC CHIP	0.01MF 50V	C1832	1-126-940-11	ELECT	330MF 20% 16V
C1515	1-163-031-11	CERAMIC CHIP	0.01MF 50V	C1833	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
C1516	1-136-177-00	FILM	1MF 5% 50V	C1834	1-124-122-11	ELECT	100MF 20% 50V
C1517	1-163-125-00	CERAMIC CHIP	220PF 5% 50V	C1835	1-124-122-11	ELECT	100MF 20% 50V
C1551	1-126-964-11	ELECT	10MF 20% 50V	C1836	1-124-903-11	ELECT	1MF 20% 50V
C1603	1-163-117-00	CERAMIC CHIP	100PF 5% 50V	C1837	1-164-489-11	CERAMIC CHIP	0.22MF 10% 16V
C1604	1-163-117-00	CERAMIC CHIP	100PF 5% 50V	C1838	1-124-122-11	ELECT	100MF 20% 50V
C1605	1-163-117-00	CERAMIC CHIP	100PF 5% 50V	C1839	1-124-122-11	ELECT	100MF 20% 50V
C1606	1-163-117-00	CERAMIC CHIP	100PF 5% 50V	C1840	1-124-903-11	ELECT	1MF 20% 50V
C1607	1-163-117-00	CERAMIC CHIP	100PF 5% 50V	C1841	1-126-967-11	ELECT	47MF 20% 50V
C1608	1-163-117-00	CERAMIC CHIP	100PF 5% 50V	C1842	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C1611	1-124-122-11	ELECT	100MF 20% 50V	C1843	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C1612	1-104-665-11	ELECT	100MF 20% 25V	C1844	1-126-967-11	ELECT	47MF 20% 50V
C1613	1-124-122-11	ELECT	100MF 20% 50V	C1845	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
C1615	1-104-665-11	ELECT	100MF 20% 25V	C1846	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
C1617	1-126-967-11	ELECT	47MF 20% 50V	C1847	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
C1619	1-104-664-11	ELECT	47MF 20% 25V	C1848	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
C1620	1-126-967-11	ELECT	47MF 20% 50V	C1849	1-124-122-11	ELECT	100MF 20% 50V
C1622	1-104-664-11	ELECT	47MF 20% 25V	C1850	1-124-122-11	ELECT	100MF 20% 50V
C1701	1-126-935-11	ELECT	470MF 20% 16V	C1851	1-137-399-11	FILM	0.1MF 5% 50V
C1702	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V	C1852	1-124-122-11	ELECT	100MF 20% 50V
C1703	1-163-099-00	CERAMIC CHIP	18PF 5% 50V	C1853	1-137-378-11	FILM	0.22MF 5% 50V
C1704	1-163-125-00	CERAMIC CHIP	220PF 5% 50V	C1854	1-124-927-11	ELECT	4.7MF 20% 50V
C1705	1-163-099-00	CERAMIC CHIP	18PF 5% 50V	C1855	1-124-903-11	ELECT	1MF 20% 50V
C1709	1-163-031-11	CERAMIC CHIP	0.01MF 50V	C1856	1-104-665-11	ELECT	100MF 20% 25V
C1723	1-163-117-00	CERAMIC CHIP	100PF 5% 50V	C1857	1-124-122-11	ELECT	100MF 20% 50V
C1724	1-163-117-00	CERAMIC CHIP	100PF 5% 50V	C1858	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
C1801	1-124-903-11	ELECT	1MF 20% 50V	C1859	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
— 114 —				C1860	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
C1861				C1862	1-124-122-11	ELECT	100MF 20% 50V
C1863				C1864	1-124-903-11	ELECT	1MF 20% 50V
C1865				C1866	1-124-903-11	ELECT	1MF 20% 50V
C1867							

D

The components identified by shading and mark **A** are critical for safety.
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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
<CONDUCTOR CHIP>											
CJ1	1-216-295-00	CONDUCTOR, CHIP		CN1716*	1-564-507-11	PLUG, CONNECTOR 4P					
CJ2	1-216-295-00	CONDUCTOR, CHIP		CN1756*	1-564-508-11	PLUG, CONNECTOR 5P					
CJ3	1-216-295-00	CONDUCTOR, CHIP		CN1757*	1-564-516-11	PLUG, CONNECTOR 13P					
CJ4	1-216-295-00	CONDUCTOR, CHIP		<DIODE>							
CJ5	1-216-295-00	CONDUCTOR, CHIP		D1501	8-719-908-03	DIODE GP08D					
CJ6	1-216-295-00	CONDUCTOR, CHIP		D1502	8-719-109-89	DIODE RD5.6ESB2					
CJ7	1-216-295-00	CONDUCTOR, CHIP		D1503	8-719-908-03	DIODE GP08D					
CJ8	1-216-295-00	CONDUCTOR, CHIP		D1505	8-719-109-88	DIODE RD5.6ESB1					
CJ9	1-216-295-00	CONDUCTOR, CHIP		D1551	8-719-109-72	DIODE RD3.9ESB2					
CJ10	1-216-295-00	CONDUCTOR, CHIP		D1552	8-719-911-19	DIODE ISS119-25					
CJ11	1-216-295-00	CONDUCTOR, CHIP		D1553	8-719-911-19	DIODE ISS119-25					
CJ12	1-216-295-00	CONDUCTOR, CHIP		D1601	8-719-908-03	DIODE GP08D					
CJ13	1-216-295-00	CONDUCTOR, CHIP		D1602	8-719-908-03	DIODE GP08D					
CJ16	1-216-295-00	CONDUCTOR, CHIP		D1603	8-719-908-03	DIODE GP08D					
CJ17	1-216-295-00	CONDUCTOR, CHIP		D1604	8-719-908-03	DIODE GP08D					
CJ18	1-216-295-00	CONDUCTOR, CHIP		D1803	8-719-911-19	DIODE ISS119-25					
CJ19	1-216-295-00	CONDUCTOR, CHIP		D1812	8-719-911-19	DIODE ISS119-25					
CJ20	1-216-295-00	CONDUCTOR, CHIP		D1814	8-719-911-19	DIODE ISS119-25					
CJ21	1-216-295-00	CONDUCTOR, CHIP		D1825	8-719-911-19	DIODE ISS119-25					
CJ22	1-216-295-00	CONDUCTOR, CHIP		D1826	8-719-911-19	DIODE ISS119-25					
CJ23	1-216-295-00	CONDUCTOR, CHIP		D1827	8-719-109-68	DIODE RD3.6ESB1					
CJ24	1-216-295-00	CONDUCTOR, CHIP		D1931	8-719-110-60	DIODE RD24ESB					
CJ25	1-216-295-00	CONDUCTOR, CHIP		D1932	8-719-110-60	DIODE RD24ESB					
CJ26	1-216-295-00	CONDUCTOR, CHIP		D1934	8-719-110-60	DIODE RD24ESB					
CJ27	1-216-295-00	CONDUCTOR, CHIP		D1935	8-719-110-60	DIODE RD24ESB					
CJ28	1-216-295-00	CONDUCTOR, CHIP		D1936	8-719-110-60	DIODE RD24ESB					
CJ29	1-216-295-00	CONDUCTOR, CHIP		D1937	8-719-110-60	DIODE RD24ESB					
CJ30	1-216-295-00	CONDUCTOR, CHIP		D1942	8-719-110-60	DIODE RD24ESB					
CJ31	1-216-295-00	CONDUCTOR, CHIP		D1945	8-719-110-60	DIODE RD24ESB					
CJ34	1-216-295-00	CONDUCTOR, CHIP		D1946	8-719-110-60	DIODE RD24ESB					
CJ35	1-216-295-00	CONDUCTOR, CHIP		D1947	8-719-110-60	DIODE RD24ESB					
CJ36	1-216-295-00	CONDUCTOR, CHIP		D1948	8-719-110-36	DIODE RD13ESB2					
CJ37	1-216-295-00	CONDUCTOR, CHIP		D1949	8-719-110-60	DIODE RD24ESB					
CJ38	1-216-295-00	CONDUCTOR, CHIP		D1951	8-719-110-36	DIODE RD13ESB2					
CJ39	1-216-295-00	CONDUCTOR, CHIP		D1953	8-719-110-36	DIODE RD13ESB2					
CJ42	1-216-295-00	CONDUCTOR, CHIP		D1954	8-719-110-36	DIODE RD13ESB2					
CJ43	1-216-295-00	CONDUCTOR, CHIP		<FUSE>							
CJ44	1-216-295-00	CONDUCTOR, CHIP		F1601A	1-532-745-11	FUSE, GLASS TUBE (3.15A/125V)					
CJ45	1-216-295-00	CONDUCTOR, CHIP		1-533-223-11	HOLDER, FUSE; F1601						
CJ46	1-216-295-00	CONDUCTOR, CHIP		F1602A	1-532-745-11	FUSE, GLASS TUBE (3.15A/125V)					
CJ47	1-216-295-00	CONDUCTOR, CHIP		1-533-223-11	HOLDER, FUSE; F1602						
CJ48	1-216-295-00	CONDUCTOR, CHIP		<IC>							
CJ50	1-216-295-00	CONDUCTOR, CHIP		IC1501	8-759-192-71	IC STV9379					
CJ51	1-216-295-00	CONDUCTOR, CHIP		IC1601	8-749-010-88	IC STK392-010					
CJ53	1-216-295-00	CONDUCTOR, CHIP		IC1602	8-749-010-88	IC STK392-010					
CJ54	1-216-295-00	CONDUCTOR, CHIP		IC1701	8-752-861-57	IC CXP85112B-613S					
CJ55	1-216-295-00	CONDUCTOR, CHIP		IC1702	8-759-041-54	IC MN1382S					
CJ57	1-216-295-00	CONDUCTOR, CHIP		IC1801	8-759-327-52	IC PM0002B					
CJ58	1-216-295-00	CONDUCTOR, CHIP		IC1802	8-759-327-51	IC PA0053B					
CJ59	1-216-295-00	CONDUCTOR, CHIP		IC1803	8-759-012-67	IC MC7905CT					
CJ60	1-216-295-00	CONDUCTOR, CHIP		IC1804	8-759-231-53	IC TA7805S					
CJ62	1-216-295-00	CONDUCTOR, CHIP		IC1805	8-759-327-52	IC PM0002B					
CJ63	1-216-295-00	CONDUCTOR, CHIP		IC1806	8-759-327-51	IC PA0053B					
<CONNECTOR>											
CN1509*	1-564-506-11	PLUG, CONNECTOR 3P		IC1807	8-759-929-65	IC LM7912CT					
CN1513*	1-564-506-11	PLUG, CONNECTOR 3P		IC1808	8-759-701-79	IC NJM7812FA					
CN1612*	1-564-507-11	PLUG, CONNECTOR 4P		IC1809	8-759-327-52	IC PM0002B					
CN1642*	1-564-507-11	PLUG, CONNECTOR 4P		IC1931	8-759-711-28	IC NJM2058D					
CN1672*	1-564-507-11	PLUG, CONNECTOR 4P		IC1932	8-759-711-28	IC NJM2058D					